

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 17, 2006, 09:49:14 ; Search time 1478 Seconds
(without alignments)
11277.670 Million cell updates/sec

Title: US-10-607-806-1-C7256_COPY_7000_9500

Perfect score: 2499

Sequence: 1 gtcgtgcacgcgtcgcacg.....tttgagaccacgcctgcgacaa 2501

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N Geneseq_21:*

1: geneseqn1980s:*
2: geneseqn1990s:*
3: geneseqn2000s:*
4: geneseqn2001as:*
5: geneseqn2001bs:*
6: geneseqn2002as:*
7: geneseqn2002bs:*
8: geneseqn2003as:*
9: geneseqn2003bs:*
10: geneseqn2003cs:*
11: geneseqn2003ds:*
12: geneseqn2004as:*
13: geneseqn2004bs:*
14: geneseqn2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2498.6	100.0	12174	12 ADI35082	ADI35082 Human PLA
2	2497.4	99.9	12174	12 ADJ09983	Adj09983 Human pho
3	2497.4	99.9	12174	12 ADJ09983	Abk47376 Human pho
4	456.6	18.3	42360	13 ABD33466	Abd33466 Human can
5	434.2	17.4	93544	13 ABD33504	Abd33504 Human can
6	434.2	17.4	160482	11 ACN43914	Acn43914 Human gen
7	433.2	17.3	91760	11 ACN44410	Acn44410 Human gen
8	425.4	17.0	38538	13 ABD33357	Abd33357 Human can
9	417.2	16.7	122888	6 ABK83569	Abk83569 Human can
10	416.2	16.7	6405	5 AAF97850	Aaf97850 Human can
11	416	16.6	128990	12 ADP13332	Adp13332 Human neu
12	414.2	16.6	196686	11 ACN44170	Acn44170 Human cel
13	413.6	16.6	86000	12 ADP68568	Adp68568 Human ppa
14	413.6	16.6	215974	12 ADQ97523	Adq97523 Human can
15	413.4	16.5	13670	6 AAL42369	Aal42369 Human gua
16	413.2	16.5	6519	5 AAI15909	Aai15909 Human ner
17	408.8	16.4	17245	4 AAK83897	Aak83897 Human imm
18	406.2	16.3	348101	12 ADQ97146	Adq97146 Human can
19	405.8	16.2	227246	13 ABD33272	Abd33272 Human can

C	20	404	16.2	95240	10 ADL13556	Adl13556 Osteoarth
C	21	403.6	16.2	23639	6 ABQ78991	Abq78991 Human pho
C	22	400.4	16.0	14176	4 AAS26670	Aas26670 Human gen
C	23	400.4	16.0	14176	8 ABX74019	Abx74019 Human nov
C	24	400.4	16.0	177531	8 ACF62732	Act62732 Cancer ba
C	25	400.4	16.0	177531	8 ADB20847	Adb20847 MRP1 base
C	26	400.4	16.0	177531	10 ADB87936	Adb87936 Human UGT
C	27	400.4	16.0	177531	10 ADB86919	Adb86919 Human MDR
C	28	400.4	16.0	177531	10 ADH92110	Adh92110 Human MDR
C	29	400.4	16.0	177531	10 ADH74617	Adh74617 Human BAC
C	30	399	16.0	87687	11 ACN45166	Acn45166 Human gen
C	31	399	16.0	131078	14 ADX06911	Adx06911 Cyclin-de
C	32	398.6	16.0	174448	11 ACN43946	Acn43946 Human gen
C	33	398.4	15.9	167343	6 ABL64403	Abi64403 Stomach c
C	34	398.4	15.9	167343	4 ABL67239	Abi67239 Thyroid c
C	35	394.8	15.8	30620	4 ABK65931	Abk65931 Human imm
C	36	394.6	15.8	19300	12 ADP74371	Adp74371 Human X c
C	37	392.4	15.7	9289	10 ADB84033	Adb84033 5' regula
C	38	391.4	15.7	226475	9 AAD58279	Aad58279 Human tum
C	39	390	15.6	13224	4 AAS41751	Aas41751 Genomic s
C	40	390	15.6	13224	4 ABA06811	Abas06811 Human gen
C	41	390	15.6	13224	6 ABV84148	Abv84148 Human pol
C	42	390	15.6	36221	4 AAS00624	Aas00624 Human dea
C	43	389.6	15.6	23456	13 ABD33110	Abd33110 Human can
C	44	389.6	15.6	60057	11 ACN44314	Acn44314 Human can
C	45	388	15.5	75252	11 ACN44450	Acn44450 Human gen

ALIGNMENTS

RESULT 1	
ID ADI35082	ADI35082 standard; DNA, 12174 BP.
XX	
XX	ADI35082;
XX	
DT	22-APR-2004 (first entry)
XX	
XX	Human PLA2G1B nucleotide sequence.
DE	
XX	PLA2G1B ; fat deposition; leanness; polymorphism;
KW	non-insulin dependent diabetes mellitus; NIDDM; hyperinsulinemia;
KW	hyperextension; glucose intolerance; dyslipidemia; hypercoagulability;
KW	microalbuminuria; human; gene; ds.
KW	
XX	
OS	Homo sapiens.
XX	
PN	WO2004002295-A2.
XX	
PD	08-JAN-2004.
XX	
PE	27-JUN-2003; 2003WO-US020830.
XX	
PR	27-JUN-2002; 2002US-0392361P.
PA	(SEQU-) SEQUENOM INC.
XX	
PI	Adam GIR, Langdown ML;
XX	
DR	WPI; 2004-082843/08.
XX	P-Psdb; ADI35083.
FT	Diagnosing a predisposition to fat deposition or leanness, useful for
PT	detecting a predisposition to e.g. diabetes or hypertension, comprises
PT	detecting the presence of a polymorphism in the PLA2G1B nucleic acid from
XX	the subject.
PS	Claim 1; SEQ ID NO 1; 91pp: English.
CC	The invention relates to diagnosing a predisposition to fat deposition or
CC	leanness in a subject comprising detecting the presence or absence of a
CC	polymorphic variation associated with fat deposition at a polymorphic

CC site in a PLA2G1B nucleotide sequence in a nucleic acid sample from a
CC subject, where the presence of the polymorphic variation indicates a
CC predisposition to fat deposition in the subject. The polymorphic
CC variation is a guanine at position 7328 or thymine at position 9182 of
CC the present sequence. The method is useful for diagnosing a
CC predisposition to fat deposition or leanness in a subject, and
CC consequently for diagnosing a predisposition to non-insulin dependent
CC diabetes mellitus (NIDDM) in a subject and conditions such as
CC hyperinsulinemia, hypertension, glucose intolerance, dyslipidemia,
CC hypercoagulability, or microalbuminuria, which can lead to early
CC prescription of preventive measures. The present sequence represents a
CC human PLA2G1B nucleotide sequence.

XX Sequence 12174 BP; 3217 A; 2992 C; 2738 G; 3215 T; 0 U; 12 Other;

Query Match 100.0%; Score 2499; DB 12; Length 12174;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 2500; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Db 7060 CTTTCAATTAATATATGATTAAGAAAGCTTAATTTTCAAGCCATAGATCATTTCC 7119
QY 121 TGAAGCATCTTGCGCAAGTCATCCACCTGTTCTGAGAGTGCGGCAAGGCTGAC 180
Db 7120 TGAAGCATCTTGCGCAAGTCATCCACCTGTTCTGAGAGTGCGGCAAGGCTGAC 7179
QY 181 CTATTGCTCTGCACTTAATCTCTTAATCTCACTGTCCCTCCACTTTCGAGGCTCCGA 240
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PD	08-JAN-2004.	
PP	27-JUN-2003; 2003MO-US020831.	
PR	27-JUN-2002; 2002US-0392362P.	
PA	(SEQU-) SEQUENOM INC.	
P1	Adam GIR, Langdown ML, Denissenko MF, Dennis E, Cantor C;	
P1	Rudin B;	
DR	WIPI: 2004-071944/07.	
DR	P-PSDB; ADJ09984.	
PT	Identifying a candidate therapeutic for fat reduction, useful for	
PT	treating diabetes, by introducing a test molecule to a system comprising	
PT	PLA2G1B protein or nucleic acid, and determining the presence of	
PT	interaction between the compounds.	
PS	Claim 1; SEQ ID NO 1; 116pp; English.	
CC	This invention relates to a novel candidate therapeutic agent useful for	
CC	fat reduction and disorders related to fat depositions. Specifically, it	
CC	refers to polymorphic variations in the phospholipase A2 (PLA2G1B) DNA,	
CC	which is located on chromosome 12q24 and has been associated with central	
CC	fat deposition. The present invention describes methods to detect the	
CC	presence or absence of these single nucleotide polymorphisms of PLA2G1B,	
CC	in particular G7338A and T9182G, and subsequently provide treatment that	
CC	reduces fat deposition. This treatment may consist of an appetite	
CC	suppressant, a lipase inhibitor, a phospholipase inhibitor, an exercise	
CC	regimen, a dietary regimen, psychological counselling, psychotherapy or a	
CC	psychotherapeutic. Accordingly, PLA2G1B is a target for reducing fat	
CC	deposition and it can be used to treat both obesity and non-insulin	
CC	dependent diabetes mellitus (NIDDM), as well as cardiovascular disorders	
CC	such as hypertension. As such, it exhibits anticatabolic activity. This	
CC	polynucleotide sequence is the human PLA2G1B DNA of the invention.	
XX		
SQ	Sequence 12174 BP; 3220 A; 2996 C; 2739 G; 3219 T; 0 U; 0 Other;	
Query Match	99.9%; Score 2497.4; DB 12; Length 12174;	

Best Local Similarity 99.8%; Pred. No. 0;
Matches 2495; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

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Qy 841 CAAGCAATCTCTCACTTGGAGTCCCAAGTGTGGAGTTACAGGGGTGAGGCAACATG 900
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Qy	2221	ATAATCCTACTACCCAAAGATATACAGATATATCTCTCAGATATTTTGGGGCATAC	2280
Dp	9220	ATAATCCTACTACCCAAAGATATACAGATATATCTCTCAGATATTTTGGGGCATAC	9279
Qy	2281	TAGCTTTTATTTTGGGAAATTTCCATGTGCAGGCACTACCTAATTTTCTAAATGTCT	2340
Dp	9280	TAGCTTTTATTTTGGGAAATTTCCATGTGCAGGCACTACCTAATTTTCTAAATGTCT	9339
Qy	2341	ATGTAGTATTCATTTAAGAGATGTTCCATTAATTTTAAATATACATGCTTTTAAAGTAGA	2400
Dp	9340	ATGTAGTATTCATTTAAGAGATGTTCCATTAATTTTAAATATACATGCTTTTAAAGTAGA	9399
Qy	2401	AACCTAGTGTGGGCACTGTGGGCTCACGCGCTGTATCCCAAGCACTTTGGAGGGCCGAGCAAA	2460
Dp	9400	AACCTAGTGTGGGCACTGTGGGCTCACGCGCTGTATCCCAAGCACTTTGGAGGGCCGAGCAAA	9459
Qy	2461	TGATATCACTTGAAGTCCGAGTTTGAGACCAAGCTGAGCAA	2501
Dp	9460	TGATATCACTTGAAGTCCGAGTTTGAGACCAAGCTGAGCAA	9500

[illegible]

FT	variation	replace(6844,A)	/tag= j
FT		//label= SNP	
FT		/note= "Single nucleotide polymorphism"	
FT	intron	6874. .9489	/tag= k
FT		/number= 3	
FT	exon	9490. .9613	/tag= l
FT		/number= 4	
FT	variation	replace(9531,A)	/tag= m
FT		/label= SNP	
FT		/note= "Single nucleotide polymorphism"	
PN	WO200212562-A2.		
PD	14-FEB-2002.		
PF	06-AUG-2001; 2001WO-US024663.		
XX			
XX	04-AUG-2000; 2000US-0223179P.		
XX			
XX	(GENA-) GENNAISSANCE PHARM INC.		
XX			
XX	Kazemi A, Kijem SE, Koshy B;		
XX			
XX	WPI: 2002-303982/34.		
DR	P-PSDB: AAU76667.		
XX			
XX	Novel isolated human Phospholipase A2, Group IB pancreas polynucleotide,		
FT	for therapeutic purposes, for studying expression and function of the		
PT	polynucleotide and for expressing the phospholipase protein.		
PS	Claim 1; Fig 1; 51pp; English.		
XX			
XX	The invention relates to an isolated human Phospholipase A2, Group IB		
CC	(pancreas) (PLA2G1B) polynucleotide comprising a sequence which is a		
CC	polymorphic variant for a reference sequence for the PLA2G1B gene or its		
CC	fragment, or a polymorphic variant of a reference sequence for a PLA2G1B		
CC	cDNA or its fragment. Also included are haplotyping/genotyping the		
CC	PLA2G1B gene of an individual, predicting the haplotype pair for the		
CC	PLA2G1B gene of an individual, identifying an association between a trait		
CC	and at least one haplotype or haplotype pair of the PLA2G1B gene, an		
CC	isolated genotyping oligonucleotide for detecting a polymorphism in the		
CC	PLA2G1B gene, a recombinant non-human organism transformed or transfected		
CC	with the PLA2G1B sequence, where the organism expresses a PLA2G1B protein		
CC	encoded by the first nucleotide sequence or by the polymorphic variant		
CC	sequence, an isolated polypeptide comprising a sequence which is a		
CC	polymorphic variant of a reference sequence for the PLA2G1B protein or		
CC	its fragment, an anti-PLA2G1B monoclonal antibody, screening for drugs		
CC	targeting PLA2G1B, a computer system for storing and analysing		
CC	polymorphism data for the PLA2G1B gene and a genome anthology for PLA2G1B		
CC	gene. The PLA2G1B variant is useful in studying the expression and		
CC	function of PLA2G1B, and in expressing PLA2G1B protein for use in		
CC	screening for candidate drugs to treat diseases related to PLA2G1B		
CC	activity (e.g. pancreatitis and pancreatic cancer) and for therapeutic		
CC	purposes. The transgenic organism is useful for studying expression of		
CC	the PLA2G1B isogenes in vivo, for in vivo screening and testing of drugs		
CC	targeted against PLA2G1B protein, and for testing the efficacy of		
CC	therapeutic agents and compounds in a biological system. The antibody is		
CC	useful for studying the effect of the variation on the biological		
CC	activity of PLA2G1B as well as on the binding affinity of candidate drugs		
CC	targeting PLA2G1B. The present sequence is the PLA2G1B gene which is		
CC	located on chromosome 12q23-q24.1		
XX			
XX			
SQ	Sequence 13612 BP; 3637 A; 3290 C; 3070 G; 3615 T; 0 U; 0 Other;		
Query Match	99.9%; Score 2497.4; DB 6; Length 13612;		
Best Local Similarity	99.8%; Pred. No. 0;		
Matches 2495; Conservative	5; Mismatches 1; Indels 0; Gaps 0		
1	GTCTGTCTACCTGCTGTCCAGCTGGTAAACAGACCACTGTGTCTCAAAAAAAAAAATG 60		

Db 6516 GTCTGTCACTGCTCTCCAGCTGGGTAAACAGACACTCTGTCTCAAAAAAATG 6575
Qy 61 CTTTCAATTAATATATATGATTAAGGACTTATATTTTTCAGACCAATAGATCATTTCTCC 120
Db 6576 CTTTCAATTAATATATGATTAAGGACTTATATTTTTCAGACCAATAGATCATTTCTCC 6635
Qy 121 TGAAGCATCTTGGCGAAGTCATCCCACTGTTCTGAGAGTGGCAGGTGAGGCTGAC 180
Db 6636 TGAAGCATCTTGGCGAAGTCATCCCACTGTTCTGAGAGTGGCAGGTGAGGCTGAC 6695
Qy 181 CTATGCTCTGCACTTACTCTATCTCAAGCTGTCCCTCCACTTTCAGAGTCTCCAGA 240
Db 6696 CTATGCTCTGCACTTACTCTATCTCAAGCTGTCCCTCCACTTTCAGAGTCTCCAGA 6755
Qy 241 CACATGAOACTGTACGACACGAGCCAGAGACTGACAGCTGTAAATTTCTGCTGACA 300
Db 6756 CACATGAOACTGTATGACACGAGCCAGAGACTGACAGCTGTAAATTTCTGCTGACA 6815
Qy 301 MMCCCTAACCCCAACCTATTGATCTGCTGCTGGCTGGCAGTCACTGTAGACAGTA 360
Db 6816 ACCCGTAAACCCCAACCTATTGATCTGCTGCTGGCAGTCACTGTAGACAGTA 6875
Qy 361 GGTATTATCCCTCTCTGACCTATGAAATTCATGAGTGTCTCAGTAGGCGGAGGAAATA 420
Db 6876 GGTATTATCCCTCTCTGACCTATGAAATTCATGAGTGTCTCAGTAGGCGGAGGAAATA 6935
Qy 421 ATAGTAACAACGACCAATGATTTAGTGTAAATTTCTTGCTTCTGGCAGTGTCTCTTTA 480
Db 6936 ATAGTAACAACGACCAATGATTTAGTGTAAATTTCTTGCTTCTGGCAGTGTCTCTTTA 6995
Qy 481 ATCCCTACAAGCAACCTATGGGATAGGTACAAATTAATCCCTCACTTAACAGATAAGAAACT 540
Db 6996 ATCCCTACAAGCAACCTATGGGATAGGTACAAATTAATCCCTCACTTAACAGATAAGAAACT 7055
Qy 541 GAGGCTCAGAAAGCTGAGCTATTTTGGCCAAAGATCAACAGCTTGTAAAGTGTGACAGTT 600
Db 7056 GAGGCTCAGAAAGCTGAGCTATTTTGGCCAAAGATCAACAGCTTGTAAAGTGTGACAGTT 7115
Qy 601 GGGTTTTTTTTTGTGTTTGAAGACAGGGCTTGTCTGTCACTCCAGGCAATGAGCAC 660
Db 7116 GGGTTTTTTTTTGTGTTTGAAGACAGGGCTTGTCTGTCACTCCAGGCAATGAGCAC 7175
Qy 661 AATTGGTGCAACCATAGGTGACCTGAGCCCAACCTCTGAGCTCAAGGGATCTGCTGACC 720
Db 7176 AATTGGTGCAACCATAGGTGACCTGAGCCCAACCTCTGAGCTCAAGGGATCTGCTGACC 7235
Qy 721 TCAGCTCCCAAGTAGCTGGGACTAGACAGCTGACACACAGCCTGGCTAAATTAAGAAA 780
Db 7236 TCAGCTCCCAAGTAGCTGGGACTAGACAGCTGACACACAGCCTGGCTAAATTAAGAAA 7295
Qy 781 ATTTTTTTGTAGAGACTGGGTCTTACTAGTTGGCCAGGCTTGTCTTAATCTCTGGCTT 840
Db 7296 ATTTTTTTGTAGAGACTGGGTCTTACTAGTTGGCCAGGCTTGTCTTAATCTCTGGCTT 7355
Qy 841 CAAGCAATCTCTCTACTGCTGGCATGCCAAAGTGTGGGATTAAGGGGTGAGGCACCATG 900
Db 7356 CAAGCAATCTCTCTACTGCTGGCATGCCAAAGTGTGGGATTAAGGGGTGAGGCACCATG 7415
Qy 901 TGGGCTACTTATTTCTTTTCAATTCATCTTTCAAATAGATGTAAAGTCAACAGAACAG 960
Db 7416 TGGGCTACTTATTTCTTTTCAATTCATCTTTCAAATAGATGTAAAGTCAACAGAACAG 7475
Qy 961 GGAATTAAGTCTATTTTCTTCTCTTTTGTAGACAGAGTCTCACTTCATCATCTCAAA 1020
Db 7476 GGAATTAAGTCTATTTTCTTCTCTTTTGTAGACAGAGTCTCACTTCATCATCTCAAA 7535
Qy 1021 CCGCCGTTAGGCTCACTGCAACTGTGCCCGGGGTCAAGGATTTCTCTGCTAAGC 1080
Db 7536 CCGCCGTTAGGCTCACTGCAACTGTGCCCGGGGTCAAGGATTTCTCTGCTAAGC 7595
Qy 1081 CTCCTAGTAGCTGAATTAACAGCGTGCACCAATGCTTGGCTAATTTTGTATTTT 1140

Db 7596 CTCCTAGTAGCTGAATTAACAGCGTGCACCAACATGCTTGGCTAAATTTTGTATTTT 7655
Qy 1141 TAGAGAGATGGGGTTTTTACATAGTTGGCCAGGCTGGCTCAAACTCTGACCTCAAGTG 1200
Db 7656 TAGAGAGATGGGGTTTTTACATAGTTGGCCAGGCTGGCTCAAACTCTGACCTCAAGTG 7715
Qy 1201 ATTCGCTGCTCAGTCTCCCAAGTGTCTGGAATTAATAGCGTAGTCACTGTGCTGGC 1260
Db 7716 ATTCGCTGCTCAGTCTCCCAAGTGTCTGGAATTAATAGCGTAGTCACTGTGCTGGC 7775
Qy 1261 CGATTACTGTCTATTTTCTTTATTTGCTATATCCCAAGTCTTAAGAGAGTGTCTGACATAT 1320
Db 7776 CGATTACTGTCTATTTTCTTTATTTGCTATATCCCAAGTCTTAAGAGAGTGTGTGACATAT 7835
Qy 1321 AGTAGGTGCTCAATTAATTAATGATGAAATGACAGCCTAGATATTAACCTTTCTTTTCTT 1380
Db 7836 AGTAGGTGCTCAATTAATTAATGATGAAATGACAGCCTAGATATTAACCTTTCTTTTCTT 7895
Qy 1381 TTTTTTAAACAATCTTGACAACTTTGAGAAATTAATCAATCTTGCAATTTGCTTTTCA 1440
Db 7896 TTTTTTAAACAATCTTGACAACTTTGAGAAATTAATCAATCTTGCAATTTGCTTTTCA 7955
Qy 1441 CTATACCTCTGTTATGACTTTTTCATATTTGCTCTCAAACTTTATGTTACTGTTTTTC 1500
Db 7956 CTATACCTCTGTTATGACTTTTTCATATTTGCTCTCAAACTTTATGTTACTGTTTTTC 8015
Qy 1501 ATGTGTACTATTTTATAGTACATGAATTAATAGGCTTAATTTGCTTATACATCTCTGCTC 1560
Db 8016 ATGTGTACTATTTTATAGTACATGAATTAATAGGCTTAATTTGCTTATACATCTCTGCTC 8075
Qy 1561 CACTTTAAGAGCCCAATTTTACAATCTGATGAAGCTATGAACCTCTCCCAAGAGAA 1620
Db 8076 CACTTTAAGAGCCCAATTTTACAATCTGATGAAGCTATGAACCTCTCCCAAGAGAA 8135
Qy 1621 TACACACACACACACACTCAACACAGTTTTTTTTTAAAGTTTGGCACTTAAGCAAGA 1680
Db 8136 TACACACACACACACACTCAACACAGTTTTTTTTTAAAGTTTGGCACTTAAGCAAGA 8195
Qy 1681 AACCTGATTAAGAGATGTTTGTTCATTAATTAATTAATTAATCACTAGTTGGGCAAGTGA 1740
Db 8196 AACCTGATTAAGAGATGTTTGTTCATTAATTAATTAATTAATCACTAGTTGGGCAAGTGA 8255
Qy 1741 CTCAGCCTGTAAACCAAGTACTTTTGAAGTCCAAGGTGGGTGATCACTTGAGGTGAGA 1800
Db 8256 CTCAGCCTGTAAACCAAGTACTTTTGAAGTCCAAGGTGGGTGATCACTTGAGGTGAGA 8315
Qy 1801 AGTTGAGACACGCTCGTCAATATAGTGAACCTTATCTCTAATTAATTAATTAATTAAT 1860
Db 8316 AGTTGAGACACGCTCGTCAATATAGTGAACCTTATCTCTAATTAATTAATTAATTAAT 8375
Qy 1861 AGCTGGGTGTAGTAGTGCATGCTGTAGTCCAGCTACTCGGAGGCTGAGCAAGAGAA 1920
Db 8376 AGCTGGGTGTAGTAGTGCATGCTGTAGTCCAGCTACTCGGAGGCTGAGCAAGAGAA 8435
Qy 1921 TTGCTTGAACCTGGAGGCGAGGTTGACAGTGGCGAGATCCCACTGCACTTCACG 1980
Db 8436 TTGCTTGAACCTGGAGGCGAGGTTGACAGTGGCGAGATCCCACTGCACTTCACG 8495
Qy 1981 CTGGGCGACACGCGAGACTCTATCTCAAAAAAATTAATTAATTAATTAATTAATTAAT 2040
Db 8496 CTGGGCGACACGCGAGACTCTATCTCAAAAAAATTAATTAATTAATTAATTAATTAAT 8555
Qy 2041 AGAAACAAACCTATTAAGATTCCTGAAGGTAGCAGAGATAGTAATTAATTAATTAATTA 2100
Db 8556 AGAAACAAACCTATTAAGATTCCTGAAGGTAGCAGAGATAGTAATTAATTAATTAATTA 8615
Qy 2101 AGTTTAAATGCAATTTTAACTGTATCTTAATTTTGTATTAATTAATTAATTAATTAAT 2160
Db 8616 AGTTTAAATGCAATTTTAACTGTATCTTAATTTTGTATTAATTAATTAATTAATTAAT 8675
Qy 2161 CAATAATGCACTTCAAACTCAATCAATTAATTAATTAATTAATTAATTAATTAATTAAT 2220
Db 8676 CAATAATGCACTTCAAACTCAATCAATTAATTAATTAATTAATTAATTAATTAATTAAT 8735

PA (SAGR-) SAGRES DISCOVERY.

XX Morris DW;

XX WPI: 2003-328604/31.

XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
PT comprises a nucleotide sequence.

XX Claim 1; SEQ ID NO 100; opp; English.

XX The present invention relates to novel DNA and protein sequences which
CC are associated with carcinomas. The sequences are useful for: (i) for
CC screening drug candidates; (ii) for screening of bioactive agent capable
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
CC a bioactive agent capable of modulating the activity of CAP; (iv) for
CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) as a biobchip;
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
CC determining Carcinoma Associated (CA) gene copy number. In addition, the
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
CC carcinoma including lymphoma. The present sequence is one such CA coding
CC sequence. Note: This patent is an equivalent to basic patent
CC US2002182586A1, for which no sequence data was published

XX Sequence 160482 BP; 44060 A; 32143 C; 33530 G; 49875 T; 0 U; 874 Other;

Query Match 17.4%; Score 434.2; DB 11; Length 160482;

Best Local Similarity 60.2%; Pred. No. 2.7e-79;

Matches 888; Conservative 1; Mismatches 525; Indels 61; Gaps 8;

Qy 606 TTTTGTGTTGTTTGAAGAGAGGCTGCTGCTGACCCCGGATGAGCAGATGG 665
Db 5181 TGTGTTTTTTTCTGTAAGAGAGCTGTGCTGTGCGCAGGCTGGAGTGAAGGG 5122
Qy 666 TGAACCATAGTGTGCTGACGCTCAACCTCTGAGCTCAAGGATCTGACCTGAC 725
Db 5121 CATATCTCGGCTCACTGAAACCTGCTGCTCTGGGTTCACTGATTTCTCTGCTCA 5062
Qy 726 CTCCCAAGTAGCTGGAGCTAGAGCGTGCACACACGCTGG--CTAATTAAAAAATT 783
Db 5061 CTCCCAAGTAGCTGGAGCTAGAGCGTGCACACACGCTGGCCCTAATTGTTGTAAT 5002
Qy 784 TTTTGTGAGAGACGCTGCTTACTAGCTGGCCAGGCTGTCTTAACTCTGCTTCAA 843
Db 5001 TTTTGTGAGAGAC--AGGTTTGCTTACATTTGTGAGGCTAGTCTCAAACTCTGACCTCAA 4943
Qy 844 GCAATCTCTTACCTTGGCATCCAAAGTGTGGGATTACAGGGGTGAGCACCATGTGC 903
Db 4942 GTGATCGGCTGCTTATGATGACCAAGTGTGGGATTACAGATGTGAGCCACCCGCC 4883
Qy 904 GGTACTTATTTCTTTACATTCATCTTCCATTAAGATTAATTCACAGAAAGGGA 963
Db 4882 GGCAGATCATTCACCTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 4823
Qy 964 TTACTGCTATTTCTTCTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 1023
Db 4822 ATCCAGGCTGAGTGT-----AGTGGCAC 4799
Qy 1024 CCGTTACGCTACGCAACCTCTGCTCCCGGGTTCAAGYATTTCTCTGCTAAGCTTC 1083
Db 4798 GATCTCGGCTCACTTCACTTCACTTCCGGGTTCAAGTATTTCTCTGCTCAAGCTTC 4739
Qy 1084 CTGAGTAGCTGAATTAACAAGCTGCACACCATGCTTGGCTAATTTTGTATTTTGA 1143
Db 4738 TTGAGTAGCTGGGATTACAGGATGACACCGCACCGGCTAATTTTATTTTATTTGG 4679
Qy 1144 CAGAGATGGGGTTTATCATGTTGCCAGGCTGTCTCAAACTCTGACCTCAAGTATC 1203
Db 4678 GAGAGATGGGGTTTATCATGTTGACAGGCTGTCTCAAACTCTGACCTCAAGCAATC 4619
Qy 1204 TGCTGCTCAGTCTCCCAAGTGTGGAATTATAGCGTAGTCACTGTGCTGCGCA 1263

Db 4618 TGCTGCTTGGGCTCTTAAGTGTGAGTTACAGGCTGAGCACACACCGGCGCAA 4559
Qy 1264 TTACTGCTATTTTCTTTATTTGCTATATCCAGATCTAGAGAGTGTGACATATAGT 1323
Db 4558 --ATCATTTCACTTTCTCAACAAGTGTGTGTATGTCATGATATCTCAGSACTGACT 4501
Qy 1324 AGGTGCTCAATTAATAATGATGATGACAGGCTAGATPAATTAATTTCTTTCTTTT 1383
Db 4500 TCTAGCTCTTACCTCTTAACATATATTTAAGTGTCTTTAAGCAGAGACTTAATTCCT 4441
Qy 1384 TTAACAATCTTGACAACTTTGAGATTAATTAATTAATTAATTTGCTTTTCACTT 1443
Db 4440 CAGATCTCAAAATTCACAAATCAAAATTCACAAATTAATTTTCCTAATTTGCCCCCT 4381
Qy 1444 ATCACTTTGTA-----TGACTTTTCAATTTGCTTCAAACTTTATTTGTTACTGTTT 1497
Db 4380 TTCTCTGTAATTTCTTACTGTTTGTAAATGATATCACTTAATTCAGGAAGAAATTTCAA 4321
Qy 1498 TTGATGTTATTTATTTAGTCACTGAAT--AATGCTTAATTTGCTTATTAATCTCC 1555
Db 4320 GTCACTTCAATTTTCTCTCTCTCAAGCAGATTAAGCACTAATTTCTAGAGCTCAAC 4261
Qy 1556 TGCTCACTTTAGAGGCGCAATTTTACAAATCTGATGAAGCTATGAACCTCTCCCCAG 1615
Db 4260 TTAACAGTCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4201
Qy 1616 AGAATTAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACA 1675
Db 4200 GCACAGAGAGAGGGTGTTCATTTGAATTTCAATTTCTCTGAGAGGCTTAAGGAATGCT 4141
Qy 1676 CAAGAAACCTGCAATTAAGAGATGTTGTATATTAATTAATTAATTAATTAATTAATTAAT 1729
Db 4140 CCAATTTTATTAAG 4081
Qy 1730 GGGCAGAGTACTCAACCTCTGTAACAACAAGTACTTTTGAAGTCCAGAGTGGTGTATCAC 1789
Db 4080 GGGT 4021
Qy 1790 TTGAGTGAAGATTTGAGAGACAGGCTGTGCTATATGTGTAACCTTATCTTATTA 1849
Db 4020 CTGAGGTCAAGAGTGTCAAGACAGGCTGTGAACAATGTGTAAACCCCATCTCTATAAA 3961
Qy 1850 ATCAAAATTAAGT 1909
Db 3960 ATCAAAATTAAGT 3901
Qy 1910 AGGCAAGAGATTTGCTTGAACCTGAGAGGAGAGGTTGACGTAGCC-----GAGATCC 1963
Db 3900 ACGAGAGAGATTTGTTGAACCCAGAGAGGCGAGGTTGACGTAGCCAGATGAGATTCG 3841
Qy 1964 CACCACTGCACTCAAGCTGGGCGACACAGCGAGACTTATCTCAAAAAATTAATTAAT 2023
Db 3840 TGCCACTGCACTCAAGCTGGGCGACACAGCGAGACTTCTCTCAAAAAATTAATTAAT 3781
Qy 2024 AAAATTAAGGATGGAGAGAAACAAAATTAATTAAG 2058
Db 3780 AGAAG 3746

RESULT 7

ACM4410/c
ID ACM4410 standard; DNA: 91760 BP.

XX ACM4410;

XX 18-NOV-2004 (first entry)

XX Human genomic sequence hcc41365.

XX Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.

XX Homo sapiens.

XX MO2003073826-A2.
XX 12-SEP-2003.
XX 28-FEB-2003; 2003WO-US006235.
XX 01-MAR-2002; 2002US-00087192.
XX (SAGR-) SAGRES DISCOVERY.
XX Morris DW;
XX WPI: 2003-328604/31.
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX comprises a nucleotide sequence.
XX
XX Claim 1; SEQ ID NO 844; Opp; English.
XX
XX The present invention relates to novel DNA and protein sequences which
XX are associated with carcinomas. The sequences are useful for: (i) for
XX screening drug candidates; (ii) for screening of bioactive agent capable
XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
XX a bioactive agent capable of modulating the activity of CAP; (iv) for
XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
XX carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
XX carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biobip;
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
XX determining Carcinoma Associated (CA) gene copy number. In addition, the
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of
XX carcinoma including lymphoma. The present sequence is one such CA coding
XX sequence. Note: This patent is an equivalent to basic patent
XX US2002182386A1, for which no sequence data was published
XX
XX Sequence 91760 BP; 21177 A; 23589 C; 24129 G; 22845 T; 0 U; 20 Other;
XX
XX Query Match 17.3%; Score 433.2; DB 11; Length 91760;
XX Best Local Similarity 61.6%; Pred. No. 3.8e-79;
XX Matches 906; Conservative 1; Mismatches 474; Indels 89; Gaps 10;
XX
XX 606 TTTTGTGTTGTTTATAGAGACAGGCTCTGCTGTCACCCAGGCGATGACAGAGTGG 665
XX TTTTGTGTTTAAATTAAGAGCTGGGTTTGTCTGTGCGCAGAGATGAGATGAGTGG 5507
XX
XX 666 TGCACATAGTCTACTGACGCTCACTCTGAGCTCAAGGATCTGCTACCTCAGC 725
XX
XX 5506 CATGATCATGCTCACTACACCTCTGCTCTGAGGCTCAGGCAATCTCCACCTCAGC 5447
XX
XX 726 CTCCCAAGTAGCTGGGAGCTACAGAGGTGACACCAACGCTGGCTAATTAATAAAT-TT 784
XX 5446 CT-CGAGTAGCTGAGACTACAGGTGAGACCAACCACTGGCTAATTTATTTTATTT 5388
XX
XX 785 TTTTGTAGAGACTGGGTCTTAATCTAGCGTTGCGAGGGTCTTAAATCTCGGCTTCAAG 844
XX TTTTGTGAGAGAGGGTCTCGCTATGT-----GGCTGGTCTTGAATCTCTGGGCTCAAG 5334
XX 5387 TGTGTGAGAGAGGGTCTCGCTATGT-----GGCTGGTCTTGAATCTCTGGGCTCAAG 5334
XX
XX 845 CAATCTCTTACCTTGGCATCTCCAAAGTCTGGGATTTAAGGGGTGAGCACCATGTGG 904
XX
XX 5333 TGAATCTCTCCACCTCGGCTCTCAAGCGCTGGGATTTCAAGGTCTCAGACCCA 5274
XX
XX 905 GCTACTATTTCTTT-----ACATTCATCTTTCC 934
XX
XX 5273 GCTCATTAATTAATTTTAAATACCCAGATTAATTTCTGCTGGCCAAAGAACTTTT 5214
XX
XX 935 AATGATGATGAATGATCAGAGAAACAGGATTAATCTGCTAATTTCTCTTTTGTGA 994
XX 5213 ACTGTCTCCCAATCTTAAAGATATGACTATAG---ACTGATTTTCTTTTGTGA 5157
XX
XX 995 GACAGAGTCTCACTTATCACTCAACCTCCGTTGAG-----CTCACTGCA 1040
XX 5156 GGAGAGTATTTGTTCTGTGCTTGAAGTGTGAGTGTGATCTTGAATCTCACTGCA 5097

QY 1041 ACTTGTGCTCCCGGGGTTCAAGYATTTCTCTGCTTAAGCTCTGATGATGCTGAATTA 1100
Db 5096 ACCTCTCTCTTCTGAGGTTTCAAGGATTTCTCTGCTCAGGCTCAGAGTGTGAGCTG 5037
QY 1101 CAAGCTGACACCAATGCTTGGCTAATTTTGTATTTTATAGAGAGATGGGGTTTAC 1160
Db 5036 CAGGTGGGCTTCAACAGGCCCAAGCTAATTTTATTTTATTTTATGAGATGGGGTTTAC 4977
QY 1161 CATGTGCCAGGCTGGGCTCAAACTCTGACCTCAAGTATCTGCTGCTCAGTCTCC 1220
Db 4976 CACTTTGGCAGGCTGGTCTGATCTGAACTCTGACCTCAAGTATCAACCTGCTCAGCTCC 4917
QY 1221 CAAGTGTGGAATTAATAGCGGTGATGATCTGCTGCTGGCCGATTAATCTTATTTCTT 1280
Db 4916 CAAGCGCTGGGATTAATAGGATGAGCCAAATGATCTGCTGGAAGGATTAATTTCTTCTC 4857
QY 1281 TATTGCTAATCCCAATCTAGAGCATGTCTGACATATATGATGAGTCTCAATTAATA 1340
Db 4856 TTTTGTAGCATTTTCTGTGATTAACGCA-----TGTGCTGATCAATCA 4810
QY 1341 TTGATGATGACAGCGCTAGATATAAATTTCTTTTCTTTTAAACAATCTTGACA 1400
Db 4809 TGTTTTCTGCTGATTTTGAACCTGTGACTTTCTTTCTTCTTCTTCTTCTTCTTCT 4750
QY 1401 ACTTGCAGAAATTAATCAATCTTGACTCTGCTTTTCACTAATCACTTGTATGACT 1460
Db 4749 CTCTCTCTTCTT---CTCTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 4692
QY 1461 TTTTCAATTTGCTCAAACTTTATGTTAGTCTTTTCAATGTTATATTTAGTAC 1520
Db 4691 TTTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 4632
QY 1521 TGAATTAATGAGCTTAATTTGCTTAATACATCTCTGCTTCACTTTAGAGCCAAATTT 1580
Db 4631 CTCTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 4584
QY 1581 ACAAATCTGATGAAGAGTATGAAACCTCTCTCCAGAGAAATPACACACACACACT 1640
Db 4583 CTTCT 4524
QY 1641 CACACAGTTTTATTTTAAATGTTTGAACCTTAAGCAAGAAACCTGATTAAGAGATGT 1700
Db 4523 TCTTCTCTTCTTCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 4471
QY 1701 TGTTCATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1760
Db 4470 CTTTTCTTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 4411
QY 1761 ACTTGAAGTCCAAAGTGGGTGATCACTTGAAGTGAAGAGTTCGAGACAGCTGCTG 1820
Db 4410 ACTTGGAGGCGCAAGGCGGGGGATCACTTGAAGTCAAGTTCAGACAGCTGAGCC 4351
QY 1821 AATATGAGGAAACCTATCTCTAATAAATAAATAAATAAATAAATAAATAAATAAATA 1880
Db 4350 AACATGAGGAACTGGTCTCTAATAAATAAATAAATAAATAAATAAATAAATAAATA 4291
QY 1881 GCTGTAGTCCAGCTACTCGGAGGCTGAGGCAAGAAATTTCTTGAACCTGAGAGCA 1940
Db 4290 GCTGTATATCCAGCTTACTTGGAGGCTGAGGCAAGAAATATCTTGAACCAAGAGGG 4231
QY 1941 GAGGTGAGTGAAGCTGAGATCCACACTGACCTCAGCTGGCGACACAGCAGACT 2000
Db 4230 GAGGTGAGTGAAGCTGAGATCCACACTGACCTCAGCTGGAGTATATGAGAGAT 4171
QY 2001 CTATCTCAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 2030
Db 4170 CCATCTCAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 4141

RESULT 8
ABD3357/c
ID ABD3357 standard; DNA; 38538 BP.
XX

AC ABD33357;
XX 18-NOV-2004 (first entry)
XX
DE Human cancer-associated (CA) gene HD07-065.
XX
XX Human; cancer-associated protein; CAP; cancer-associated gene; CA; gene;
XX de; cancer; cytostatic.
XX
XX Homo sapiens.
XX
XX WO2004058146-A2.
XX
XX 15-JUL-2004.
XX
XX 15-DEC-2003; 2003WO-US040081.
XX
XX 17-DEC-2002; 2002US-00322281.
XX
XX (SAGR-) SAGRES DISCOVERY INC.
XX
XX Morris DW, Malandro MS;
XX
XX WPI; 2004-499109/47.
XX
XX Novel human cancer associated protein encoded within open reading frame
XX of cancer associated gene, useful as targets for diagnosing cancer.
XX
XX Claim 16; SEQ ID NO 448; 182bp; English.
XX
XX The invention relates to cancer-associated proteins (CAP) and the cancer-
XX associated (CA) nucleic acids encoding them. The invention also relates
XX to a method for treating cancers involving administering to a patient an
XX inhibitor of CAP, and a method of screening for anticancer activity in a
XX potential drug involving providing a cell that expresses a CA gene,
XX contacting a tissue sample derived from a cancer cell with an anticancer
XX drug candidate and monitoring the effect of the anticancer drug candidate
XX on expression of the CA gene. The CAP proteins are useful for detecting
XX cancer associated with expression of a CAP protein in a test cell sample
XX and for screening for a bioactive agent capable of modulating the
XX activity of a CAP protein. The CA nucleic acids are useful for diagnosing
XX cancer, involving determining the expression of a CA nucleic acid in a
XX tissue. This sequence data represents a human CA gene of the invention. Note:
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 38538 BP; 9418 A; 9893 C; 9523 G; 9684 T; 0 U; 20 Other;
Query Match 17.0%; Score 425.4; DB 13; Length 38538;
Best Local Similarity 60.0%; Pred. No. 1.3e-77;
Matches 879; Conservative 1; Mismatches 552; Indels 33; Gaps 9;
QY 567 CCAAGATCACACAGCTTGAAGTGTGACAGTTGGGTTTTTTTGTGTTAGAG 626
DB 35304 CAAAAAATTAATAATATTTTGTGTTAGATTATTAAGGGGCTTTTGGAG 35245
QY 627 ACAGGGTCTGCTC-TGTACCCAGGATGACACAGTGTGCAACATAGTCACTGCA 685
DB 35244 ATGAAGTTTGTCTTTGTGCGCAGGCTGAGTGCATGTGTATCTTGGCTCACAGCA 35185
QY 686 GCTCAACCTCTAGCTCAAGGATGCTGACCTGACCTCCCAAGTAGCTGGACTTA 745
DB 35184 ACCTTCACCTTCAGAGGTTCAAGCAATTCCTCTCTCAAGCTCTGAGTACCTGGATTA 35125
QY 746 CGAGCGTGACACACAGCCTGAGCTAATTAATAATTTTGTGAGAGCTGGCTCTTA 805
DB 35124 CAGGCAATGCGGCACACAGCTAATTTTGA---TTTATGATGAGATGGGTTTCT 35068
QY 806 CTAGCTGGCCAGGCTGTCTTAATCTCTGGCTTCAAGCAATCTCTACTTGGCAATC 865
DB 35067 CGATGTTGTGTCAGGCTGGTCTTGAATCTTGACCTCAGGTATCACCTCTTGGCTTC 35008

QY 866 CCAAGTGTGGATTAACAGGGTGAAGCACCATGTGCGCTACTTAATTTCTTACATTC 925
DB 35007 CCGAAGTTTGGATTTACAGGCATGACCACTGGCGCTGGC-----CTAGTTAAGGA 34954
QY 926 CATCTTTCCAAATGATGATGATCCACAGAACAGGATTAATCTGCTAATTTCTTCTTT 985
DB 34953 CTTTTCATATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 34894
QY 986 CTTTTCAGACAGTCTGACCTTCACTCAACCTCCGTTGAGCTACATGCACTC 1045
DB 34893 GTTCTCAGGCTGAGTGCATGACAGACC-----TTGGCTACCTGCAACTTC 34845
QY 1046 TGCTCCCGGGTTCAGATGATCTCTGCTTAAGCTCTGAGTAGTGAATTAACAGC 1105
DB 34844 CGCTCCCGGGTTCAAGCATTCCTCTGTCTTGCCCTCCAGATGAGCTGGGATTAACAGC 34785
QY 1106 GTGCAACACATGCTTGCTAATTTTGTATTTTGAAGAGATGAGGCTTTTACATGT 1165
DB 34784 GCTGCGATCATGCTGGCTTA--TTTTGTATTTTGTAGAGACGGGGTTTCAACATTA 34726
QY 1166 TGCCAGGCTGCTGCTCAAACTCCGACCTCAAGATCTGCTGCTCACTCCCAAG 1225
DB 34725 TGGCAGGCTGCTGCTTGAAGCTGATCTGATGATCTGCTGCTGCTGCTCCCAAG 34666
QY 1226 TGCTGAATTAATAGGCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1285
DB 34665 TGCTGGATGACAGGTGATGACCAACATCTGCTTATTTATTTTTCGAGACAGG 34606
QY 1286 CTATATCCCAAGATCTAGACAGTGTGACATATAGTAGTGTCTAATTAATTAATGAT 1345
DB 34605 GTATCTC-----TCTGTCGCCAGGCTGAGTGCAGTGTGACAGCTGCTGTTGCA 34552
QY 1346 GAATGACAGCTGATATTAATCTTTTCTTTTCTTTTAAACATCTGACATCTT 1405
DB 34551 GCTCAACATCTCTGCTGCTGCAAG--ATCTCTGCTGCTGCTGCTGCTGCTGCTGCA 34494
QY 1406 GCAGAAATTAATACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1465
DB 34493 TACAGTGCATTAAT 34434
QY 1466 ATATGCTTCAAACTTATTTTGTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1525
DB 34433 CTATATTTGCCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 34374
QY 1526 AATATGCTTATTTGCTTATATATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1585
DB 34373 AAAAGTGTGGATTAAT 34314
QY 1586 TGTGATGAAGCTATGAACCTCTCCCGAGGAATACACACACACACACACTCACAC 1645
DB 34313 CTTTCTGCT 34254
QY 1646 ACAATTTTTTTTAAATGTTGCACTTAAGCAAGAAACTGCAATTAAGAGATGTTTGTTC 1705
DB 34253 CTGGTATGCTGATTAATCTGCAATATATATATATATATATATATATATATATATAT 34194
QY 1706 ATA--TTAATTAATAATTAATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1763
DB 34193 TTCTTTGTTTAAATAATTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 34134
QY 1764 TTGGAATGTCAGAGTGGTGGATCACTTGAAGTGAAGAAATTTGAGACAGCTGCTGAAT 1823
DB 34133 TTGGAGGCTGTGTGTGGGCGGATCACTTGAATCAAGAGTACAGACCAAGCTGCGCAC 34074
QY 1824 ATGCTGAACCTTATCTTAATAATAATTAATAATAATTAATTAATTAATTAATTAAT 1883
DB 34073 ATGTTAATAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 34014
QY 1884 TGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1943
DB 34013 TGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 33954
QY 1944 GTTGACATGAGCGAAGATCCACCACTGACCTGAGCTGGGCAACACAGAGACTCTA 2003

Db 33953 GTTCAGAGGACCCAGATCACACCTTCACCTCCAGCCAGGCGACAC-AGAGAGACTCTG 33895
QY 2004 TCTCAAAAAATTAATTAATTAAT 2028
Db 33894 TCTCAAAAAATTAATTAATTAAT 33870
RESULT 9
ABK83569
ID ABK83569 standard; cDNA, 122888 BP.
XX ABK83569;
XX 14-AUG-2002 (first entry)
XX Human CDNA differentially expressed in granulocytic cells #140.
XX
XX Human; ss; granulocytic cell; DNA chip; bacterial infection;
XX viral infection; parasitic infection; protozoal infection;
XX fungal infection; sterile inflammatory disease; psoriasis;
XX rheumatoid arthritis; glomerulonephritis; aschma; thrombosis;
XX cardiac reperfusion injury; renal reperfusion injury; ARDS;
XX adult respiratory distress syndrome; inflammatory bowel disease;
XX Crohn's disease; ulcerative colitis; periodontal disease;
XX granulocyte activation; chronic inflammation; allergy.
XX Homo sapiens.
XX WO200228999-A2.
XX 11-APR-2002.
XX 03-OCT-2001; 2001WO-US030821.
XX 03-OCT-2000; 2000US-0237189P.
XX (GENE-) GENE LOGIC INC.
XX Beazer-Barclay Y, Weisman SM, Yamaga S, Vockley J;
XX MPI; 2002-435328/46.
XX
XX Detecting granulocyte activation by detecting differential expression of
XX genes associated with granulocyte activation, which serves as diagnostic
XX markers that is useful for monitoring disease states and drug toxicity.
XX
XX Claim 1; SEQ ID NO 140; 114pp; English.
XX
XX The invention relates to detecting (M1) granulocyte (GC) activation
XX (GCA), by detecting the level of expression of gene(s) (Gs) identified by
XX DNA chip analysis as given in the specification, and comparing the
XX expression level to an expression level in an unactivated GC, where
XX differential expression of Gs is indicative of GCA. Also included are
XX modulating (M2) GA by contacting GC with an agent that alters the
XX expression of at least one gene in Gs; (2) screening (M3) for an agent
XX capable of modulating GCA or an inflammation (especially chronic) in a
XX tissue, an allergic response in a subject, exposure of a subject to a
XX pathogen or sterile inflammatory disease using the gene expression
XX profile; (3) detecting (M4) an inflammation (especially chronic) in a
XX tissue, an allergic response in a subject, exposure of a subject to a
XX pathogen or sterile inflammatory disease, by detecting the level of
XX expression in a sample of the tissue of gene(s) from Gs, where the level
XX of expression of the gene is indicative of inflammation; (4) treating
XX (M5) an inflammation (especially chronic) or in a tissue, an allergic
XX response in a subject, exposure of a subject to a pathogen or sterile
XX inflammatory disease, by contacting a tissue having inflammation with an
XX agent that modulates the expression of gene(s) from Gs in the tissue. M1
XX is useful for detecting GCA, M2 is useful for modulating GA, M3 is useful
XX for screening an agent capable of modulating GCA preferably in an
XX inflammation in a tissue, M4 is useful for detecting an inflammation
XX (especially chronic) in a tissue, an allergic response in a subject,
XX exposure of a subject to a pathogen or sterile inflammatory disease (e.g.

CC psoriasis, rheumatoid arthritis, glomerulonephritis, aschma, thrombosis,
CC cardiac reperfusion injury, renal reperfusion injury, ARDS, adult
CC respiratory distress syndrome, inflammatory bowel disease, Crohn's
CC disease, ulcerative colitis, periodontal disease; also bacterial
CC infection, viral infection, parasitic infection, protozoal infection,
CC fungal infection and M5 is useful for treating one of the above
CC conditions. The present sequence represents a gene differentially
CC expressed in granulocytes. Note: The sequence data for this patent did
CC not form part of the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_ptc_sequences
XX
XX Sequence 122888 BP; 28761 A; 33410 C; 31919 G; 28798 T; 0 U; 0 Other;
SQ
Query Match 16.7%; Score 417.2; DB 6; Length 122888;
Best Local Similarity 61.1%; Pred. No. 8.1e-76;
Matches 894; Conservative 0; Mismatches 503; Indels 65; Gaps 11;
QY 604 TTTTCTTTTGTGTTTGTAGAGACAGGCTTCTCTGTACCCAGGATGACACAGT 663
Db 70248 TTTCTTTTATTTTATTAACACAGGCTCTTGTGTACCCAGGCTGAGTGACGT 70307
QY 664 GGTGCAACATAGGTCTACTGAGCTTCAACTCTGTAGCTTAAGGATCTGTACCTCA 723
Db 70308 GGTGCAACATAGGTCTACTGAGCTTCAACTCTGTAGCTTAAAGCTTGTCACTCA 70366
QY 724 GCTTCCCAAGTATGCTGGGACTTACGAGGCTGACACACAGGCTGCTTAA----- 772
Db 70367 GCTTCCCAAGTATGCTGGGACTTACGAGGCTGACACACAGGCTGCTTAA----- 70426
QY 773 -----TTAAAAAATTTTTTTGTAGAGACTGGGCTTAACTAGTGGCAGGCTTGTCTT 827
Db 70427 TTTACTTTTAAATTTTGTAGAAATGGAGTCTCAATATGCTTAGGCTGTCTC 70486
QY 828 AAATCTCTGCTTCAAGCAATCTCTTCTTGTGATCTCCCAAAAGTCTGGATTAACGG 887
Db 70487 AAATCTCTGCTTCAAGCAATCTCTTCTTGTGATCTCCCAAAAGTCTGGATTAACGT 70546
QY 888 GTGAGCCACAGTATGCTGGCTTATTTCTTAACTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 947
Db 70547 GTG-----ACCACTGACGACCTTAAATTTCTTAATATGATTAATTAATGACATTTTGG 70602
QY 948 ATCCACAGACAGGATTAATGCTTATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 1007
Db 70603 GGATGCTCAATTAAT-----TTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 70657
QY 1008 TTATCACTCACTCTCG-----TTCACTCACTCACTCTCTCTCTCTCTCTCTCTCTCTCT 1053
Db 70658 ACTGTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCTCTCTCTCTCT 70717
QY 1054 GGGTTCAAGATTTCTCTGCTTAAAGCTCTGAGTACTGGAATTAACAGGCTGACCA 1113
Db 70718 GGGTTCAAGATTTCTCTGCTTAAAGCTCTGAGTACTGGAATTAACAGGCTGACCA 70777
QY 1114 CCAATCTGCTTAAATTTTGTATTTTGTAGAGATATGAGGTTGATGTGGCCAGG 70837
Db 70778 CCAATCTGCTTAAATTTTGTATTTTGTAGAGATATGAGGTTGATGTGGCCAGG 70837
QY 1114 CCAATCTGCTTAAATTTTGTATTTTGTAGAGATATGAGGTTTACATGTTGCCAGG 1173
Db 70778 CCAATCTGCTTAAATTTTGTATTTTGTAGAGATATGAGGTTTACATGTTGCCAGG 70837
QY 1174 CTGTGCTCAAACTCTGACCTTCAAGTATCTGCTCTCACTCTCCCAAAAGTGTGAA 1233
Db 70838 CTGTGCTCAAACTCTGACCTTCAAGTATCTGCTCTCACTCTCCCAAAAGTGTGAA 70895
QY 1234 TTATAGGGGTAGTACGTGTGCTGCGGCAATTAATTTTCTTATTTCTTATCTTATCC 1293
Db 70896 TTATAGGGGTAGTACGTGTGCTGCGGCAATTTTCTTATTTCTTATTTAGTATAAA 70944
QY 1294 CCAATCTGCTTAAATTTTGTATTTTGTAGAGATATGAGGTTTACATGTTGCCAGG 1353
Db 70945 CCAATCTGCTTAAATTTTGTATTTTGTAGAGATATGAGGTTTACATGTTGCCAGG 70999
QY 1354 AGCTTAATTAATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 1413
Db 71000 AAATCTTATTAATTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 71058

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OY 1414 AATACATCTTGACATTCCTGCTTTTCACTTATCACCTTGTAATGACTTTTTCATATGCGC 1473
DB 71059 CATGAGACAGAGGTTTCTTTTCTTTTATTATGAAACCTAAGTCCCTAGACAA 71118
OY 1474 TCAACCTTTATTTGTTACTGTTTTTTCATTTGTTACTATTTTATGCTAGTAATATATGAGC 1533
DB 71119 TGCCGTGAACATATGAGGTGTTCAATTAATATGATGATTAATGAATTAATATATTTT 71118
OY 1534 TTAATTGCTTATATCATCTCTGCTCCACTTATGAGGCCAAATTTTACAAATCTGATGA 1593
DB 71179 GGGTTTACCCATTTGTTATGATCGTGAACCTCAAACTCATCTGCTGTTCAATATCTATTA 71238
OY 1594 AAGTATATACCCCTCTCCCGAGAAATACACACACACACACACACACAGTCTTT 1653
DB 71239 TTCCTGAAGATGAAATATACATACATTAATTTATTAATGAACATTTGTTCTATATATTT 71238
OY 1654 TTTTAA--TGTTGCAACTAGACAGAAACCTGATTAAGAGATGTTGTTCAATAT 1709
DB 71239 TCATGACATTTTATATACAGAGTAAGATTTCTCAGGGTATATACCTAAGAAATGAAC 71358
OY 1710 TAATTAATAATTAATCACTGTTGGGCACTGATCTCAAGCTTGAACCAAGTACTTTGAA 1765
DB 71359 TGTAGTAATAATCTGCGCAGGACGGTGGCTCATGCTGTATATCCAGACCTTTGGGA 71418
OY 1770 GTCCAGGTGGGTGATCACTTGAGTGAAGATTGAGACAGGCTGCTCAATATGGTG 1829
DB 71419 GCGCGAGGCAAGTGAATC--AGGTGAGGGATCAAGACCATCTGCGCCACATGGTGG 71476
OY 1830 AAACCTATCTCTATAAATAATCAAAATAATAGTGGTGTAGTATGATGATGCTGTAGT 1889
DB 71477 AAACCTGTCTCTATAAATAATCAAAATAATAGCAGGTGTGGGGGCGGTGGCTGTAGT 71536
OY 1890 CCCAGCTCTGGGAGGCTGAGGCAAGAAATGCTTGAACCTGGAGGCAAGGTTGCA 1949
DB 71537 CCCAGCTACTGAGGAGGCTGAGGCAAGAAATGCTTGAACCCAGAGAGTGAAGTTGCA 71596
OY 1950 GTGAGCCGAGATCCACACATGCACTCCAGCCTGGGCGACACAGGAGATCTTATCGAA 2009
DB 71597 GTGAGCCGAGATCCGACACATGCACTCCAGCCTGGGCTGACAGAGCAATCTCATCTAC 71656
OY 2010 AAAAAATAATAATAATAATAA 2031
DB 71657 AAACCAAAAAGAAAAAAA 71678

RESULT 10
AAF97850/c
ID AAF97850 standard; DNA; 6405 BP.
XX
XX AAF97850;
XX
XX 31-MAY-2001 (first entry)
XX
XX Human neuroblastoma cell line NB-1 Ip36 nucleotide sequence SEQ ID NO:64.
XX
XX Human; chromosome 1; Ip36; neuroblastoma cell line; NB-1; anticancer;
XX
XX tumour suppressor; human Ip36 homozygosity deletion domain; tumour;
XX
XX diagnosis; de.
XX
XX Homo sapiens.
XX
XX OS
XX
XX WO200116311-A1.
XX
XX
XX 08-MAR-2001.
XX
XX
XX 31-AUG-2000; 2000WO-JP005930.
XX
XX
XX 31-AUG-1999; 99JP-00245962.
XX
XX 09-MAY-2000; 2000JP-00136266.
XX
XX
XX (HISM) HISAMITSU PHARM CO LTD.
XX
XX (CHIB-) CHIBA PREFECTURE.
XX
XX
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XX
XX Nakagawara A;
PI
XX
XX WPI; 2001-226686/23.
DR
XX
XX Human Ip36 homozygosity deletion domain from the 36-position of first
XX
XX chromosome short arm in human neuroblastoma cell lines, applicable e.g.
XX
XX in gene diagnosis of tumors as well as in developing anti-cancer drugs.
XX
XX Example 8; Page 93-95; 226pp; Japanese.
XX
XX
XX The present invention describes a homozygosity deletion domain co-
XX
XX existing in the 36-position of the first chromosome short arm (Ip36) in
XX
XX human neuroblastoma. Also described are base sequences from the Ip36
XX
XX position of human neuroblastoma cell lines (NB-1 and MASE-NB-SCH-1),
XX
XX which are tumour suppressor genes in human neuroblastoma. The genes are
XX
XX tumour suppressor genes, base sequence data of which are applicable as
XX
XX cancer markers and reagents in studying mechanism of tumour body
XX
XX formation, and gene diagnosis of tumours as well as in developing anti-
XX
XX cancer drugs. AAF9787 to AAF97829 represent PCR primers used in the
XX
XX exemplification of the present invention, and AAF97830 to AAF97874
XX
XX represent sequences given in the exemplification of the present invention
XX
XX
XX Sequence 6405 BP; 1650 A; 1449 C; 1383 G; 1923 T; 0 U; 0 Other;
XX
XX
XX Query Match 16.7%; Score 416.2; DB 5; Length 6405;
XX
XX Best Local Similarity 59.9%; Pred. No. 7e-76;
XX
XX Matches 856; Conservative 1; Mismatches 504; Indels 68; Gaps 7;
XX
XX
XX 603 GTTTTTTTTGTGTTGTTTGAAGACAGAGGCTTGTCTCTGTCAACCAGGACATGACAG 662
DB 3636 GTCTTATTTTATTTTATTTTGAAGTGAAGTTTCACTGTGTGGCCAGGCTGAGTGA 3577
OY 663 TGTGTCAACATAGTCACTGACGACCTTCACTCTGAGCTCAAGGATCTGCTGACTC 722
DB 3576 TGGCAGCATCTCAGCTTACAAACAACCTGTGCTCTGTAAGTTCAAGTATCTCTGCTC 3517
OY 723 AGCTCCCAAGTATCTGAGGACTACAGAGGCTGACACACACAGGCTGCTAATTAATAAAT 782
DB 3516 AGCTCCCAAGTATCTGAGGACTACAGAGGCTGACACACACACAGGCTGCTAATTTTGT 3457
OY 783 TTTTGTGAGAGTGGGCTCTTACTACGTTGGCCAGGCTGTCTTAAACTCTGCTGCTCA 842
DB 3456 TTTTGTGAGAGTGGGCTCTTACTACGTTGGCTGAGGCTGATCTCAAACTCCGACCTCA 3398
OY 843 AGCAATCTCTTACCTTGGCATCCCAAGTGTGGAATTAAGGGGTGAGCCACATGTG 902
DB 3397 GGTGATCCGCTGCTGCTGCTGCTCCGAAAGTGTGGAATTAAGGGGTGAGCCACATGTG 3338
OY 903 CGGCTACTTATTTCTTACATTCATCTTTCCATTAAGATTAAGATCCACAGAAAGG 962
DB 3337 TGGCTATTTTTTACT----- 3322
OY 963 ATTACTGCTATTTTCTCTCTTTCTTTTGAAGACAGATCTCACTTCAATCACTCAACC 1022
DB 3321 -TTTAAGATGAGTTTGTCTCTGTGTGTCAGAGTGAAGTGAATGAGATGATC----- 3269
OY 1023 TCGCTTACGCTCACTGCAACCTGTGCTCCCGGTTCAAGATTTCTGCTGAAGCT 1082
DB 3268 ----TCGGCTCACTGCAACCTCGCTCCAGGTTCAAGATTTCTTGCCTCAAGTCT 3214
OY 1083 CTTGAGTATGGAATTAACAAGGTGACACACATGTTGGCTAATTTTTTGTATTTT 1142
DB 3213 CCAGATGAGTGGGATTAAGGACATGACACACATGCTCCGCTTA--ATTGTATTTT 3156
OY 1143 GCAGAGATGGGGTTTATCAATGTTGCCAGGCTGTGTTCAAACTCTGACCTCAAGTAT 1202
DB 3155 GTAGAGATGGGGTTTCTCATGTTGTTAGGCTGTGTTCAAACTCCCAACTC-AGTAT 3097
OY 1203 CTGCTGCTCACTGCTCCCAAGTGTGGAATTAAGGCTGATCACTGTGCTGCGCG 1262
DB 3096 GCACCAAGCTGCGCTCCCAAGTGTGGAATTAAGGCTGATGAGCCACCGCGCGCGCG 3037
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QY 1263 ATTACTGCTATTTCTTTTATTTGCTATATCCCGAGATCTAGAGAGTGTGACATATAG 1322
DB 3036 TAGCTATCTTTATATAGAGATGTTATTAACAATTTCTTTAGAACATCTTTAGAAATTA 2977
QY 1323 TAGTGCTCATATAATATATGATGATGACAGGCTGATATTAATCTTTCTTTCTTTT 1382
DB 2976 ATACTAGAAAAAAGGTT-----CTCTGACAAAATATAGGCTTTCTTTTACCGA 2924
QY 1383 TTTAAACATCTTGACACTTTGCGAATTAATTAATCTTGCACTTCTGCTTTTCACT 1442
DB 2923 GTGAAAATGTACAAATTTATCTTCCCTTTTGCAATTAATCAATGTTTCAAAATTAAT 2864
QY 1443 TATCACCTGTTTANGACTTTTTCATATGCTCCAAACCTTATGTTACTGTTTTCAT 1502
DB 2863 TACAAATTAACCATTTAGCCGAGGCACTATACATTTAGTTTCTTTTACATAAATTT 2804
QY 1503 TGTACTATTTTATGCTGATGATATATATGCTTAAATTTGCTTATACATCTCTGCTCCA 1562
DB 2803 TTACTTATTTTATTTTAAATAGCTTCACGTATATATTTGTGTAAAGCTGCTCAATCTT 2744
QY 1563 CTTTGAAGGCCAAATTTACAAATCTGATGAAAGCTATGAACCTCTCCCGAGAAATA 1622
DB 2743 TTCTAGAAAGTAACTGATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2684
QY 1623 CACACACACACACACATC-ACACACAGTTTTTTTATGTTTGAACATAAGACAAATA 1681
DB 2683 TCTGCTATTTTAACTGTTAAATATGTTGTGTATCAAAAGTTTGTAGTTCTTAAACAAAT 2624
QY 1682 ACTGCTATTTAGAGATGTTTGTTCATATTTAATTAATTAATTAATTAATTAATTAAT 1741
DB 2623 AAAACCAACGACACACAGCAAGCTTTTAAAGTTACATTAAGATCGGCTGGGCACTGTGC 2564
QY 1742 TCACCCCTGTAACCACTGTTTGAAGTCCAGAGTGTGTGATCACTTGAAGTGAATA 1801
DB 2563 TCACCCGTAATATCCCAACACTTTGTGGAGGCCAAGCGGTGAGTCACTTGAAGTCAAGTA 2504
QY 1802 GTTGGAGCCAGGCTGTGATATGTTGTAAGAACCTATCTCTTAAATAATCAAAATTA 1861
DB 2503 GTTCAAGCCAGGCTGTGCAATATGTAAGAACCTGTCTCTTAAATAATCAAAATTA 2444
QY 1862 GCTGGGTGTAGTATGATGATGCTCTGTATGTCCTGACTACTCGGAGGCTGAGGCAAGAT 1921
DB 2443 GGTGGGTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2384
QY 1922 TGTCTTGAACCTGGAGGCGAGAGTGTGCAATGAGCCGAATCCCACTGCTGCAAGCC 1981
DB 2383 CACTTGAACCCCGGAGATGAAAGTGTGCAATGAGCCGAAGGTCAACCACTGCTGAGCC 2324
QY 1982 TGGGCGACACAGGAGACTCTATCTCAAAATAATTAATTAATTAATTAATTAATTA 2030
DB 2323 TGGATGACAGAGGAGACTCTCTCTCAAAAAAAAAAAGTTGCACAAA 2275

RESULT 11
ADP13332/c
ID ADP13332 strand; DNA; 126990 BP.
AC ADP13332;
DT 26-AUG-2004 (first entry)
DE Renal cell carcinoma differentially expressed gene #68.
XX da; diagnosis; non-blood disease; solid tumor; gene expression;
XX peripheral blood mononuclear cell; renal cell carcinoma; prostate cancer;
XX head/neck cancer; differential expression.
OS Homo sapiens.
XX
XX WO2004048933-A2.
XX
XX 10-JUN-2004.
XX

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PF 21-NOV-2003; 2003MO-US037481.
XX
PR 21-NOV-2002; 2002US-0427982P.
ER 03-APR-2003; 2003US-0459782P.
XX
PA (AMHP ) WYETH.
PA (TWIN/) TWINE N C.
PA (BURC/) BURCZYNSKI M E.
PA (TREP/) TREPICCHIO W L.
PA (DORN/) DORNER A.
PA (STOV/) STOVER J A.
PA (SLON/) SLONI D K.
XX
PI Twine NC, Burczynski ME, Trepicchio WL, Dorner A, Stover JA;
PI Sloni DK;
XX
XX WPI; 2004-460799/43.
XX
PT Diagnosing non-blood disease such as solid tumor, involves comparing
PT differential expression profile of specific genes in peripheral blood
PT sample of subject with reference expression profile of specific genes.
XX
PS Disclosure; SEQ ID NO 68; 350pp; English.
XX
XX The invention relate to a method of diagnosing (M1) non-blood disease
XX such as solid tumor by providing peripheral blood sample of human having
XX non-blood disease, and comparing an expression profile of specific genes
XX in the peripheral blood sample to reference expression profile of the
XX genes, where each of the genes is differentially expressed in peripheral
XX blood mononuclear cells (PBMCs) of patients having the disease as
XX compared to PBMCs of normal humans. The method is useful for diagnosing
XX non-blood disease such as solid tumor. The solid tumor is chosen from
XX renal cell carcinoma (RCC), prostate cancer and head/neck cancer. The
XX peripheral blood sample comprises enriched PBMCs. The peripheral blood
XX sample is a whole blood sample (claimed). (M1) is useful for identifying
XX genes that are differentially expressed in peripheral blood samples
XX isolated at different stages of progression, development or treatment of
XX RCC and/or other solid tumors. This sequence corresponds to a gene that
XX is differentially expressed and detected by the method of the invention.
XX (Note: this sequence is not given as part of the printed specification
XX but was obtained from WIPO in electronic format at
XX ftp://wipo./pub/published_pct_sequences).
XX
XX Sequence 126990 BP; 36883 A; 27389 C; 27065 G; 35853 T; 0 U; 0 Other;
XX
Query Match 16.6%; Score 416; DB 12; Length 126990;
Best Local Similarity 60.2%; Pred. No. 1.4e-75;
Matches 859; Conservative 1; Mismatches 536; Indels 32; Gaps 9;
QY 611 TTGTTGTTGTTTGAAGACAGGAGTCTTGTCTGTGACCCGAGCATGAGCAGTGTGCAA 670
DB 27332 TTTCTTAATGCTGAGATGAGAGTCTCACTGTGACCCAGGCTGAGTGCATGTGTA 27273
QY 671 CCATAGTCACTGACGCTCAACTCTGAGCTCAAGGATCTGTGACTTCAAGCTCTCC 730
DB 27272 TCTCA-----CCTCAACCTCCCAAGGTTCAAGGATTTCTCTCCACAGCT-CC 27225
QY 731 AAGTACTGGAGCTACGACGCGGACCAACGCGCTGCTAATTAATAATTTTGTGT 790
DB 27224 TGTAGCTGGGAATACAGGCGGACCAACAGCCGCTAATTTTATA--TTTTCAGT 27167
QY 791 AGAGACTGGGTTCTTACTAGTTGCGCAGGCTTGTCTTAACTCTGCTTCAAGCAATCC 850
DB 27166 AGAGTCCGAGTTTCACTAGTTTCCCAAGGCTGTCTCAAACTCCGACCTCAAGTATCC 27107
QY 851 TCTTACTTTGGCATCCAAAGTGTGAGATTAACAGGGGTGAGCCCACTGTGCGCTACT 910
DB 27106 ACCCGCCGAGGCTCCCAACGCTGAGGATTAATAGGGGTGAGCCCACTGCGCTTTT 27047
QY 911 TATTTCTTATCACTTCATCTTTCCATATGAATATGAATCCACAAACAGGATTAAGTGC 970
DB 27046 CTGTACTCTTTATCTTATTTCACTGTGCTGTTCTTTTGGTTTCAAGTATCATGACTTT 26987

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QY	971	CTATTTCTTCCTCTCTTTTGTGAGACAGGTCTCACTTCATCATCACTCAACCTCCGGTCA	1030
Db	2696	TGTTTCGTAGCTTAAATAT--ATAATTTTAAGACTGGAAATGCAAGTGCATGATCTCA	26929
QY	1031	GCTCACTGCACACTCTGCTCTCCGGGTTCAAGATTTCTCTGCTCAAGCTCTCGAGTA	1090
Db	26928	GCTCACTGCACACTCTCAACCTCCAGGCTCAAAATTAATCTGTGACTCACTCTCGAGTA	26869
QY	1091	GCTGGAAATTACACCGTGCACACACAGCTTGGCTAATTTTGTATTTTGTAGCAAGAT	1150
Db	26868	GCTGGAAATTACAGGACGACACACAGTCCCACTAA--TTTTGTATTTTTCAGTGAAGT	26810
QY	1151	GGGGTTTTACCATTTTCCAGGCTGGTCTCAACTCTGACCTCAAGTATCTGCTGAC	1210
Db	26809	GAAGTTTCAACATGTTTCTTAAGGTGATCTTAACCTCTGACCTCGAAGTATCCGCGCG	26750
QY	1211	CTCACTCTCCCAAAAGTCTGGAAATTATAGCGGTGAGTCACTGTGCTCGCCGATTACTGT	1270
Db	26749	GTCAGCCTCTCCAAAGTCTGGGAATACAGGACATAAGCTGTGCTGACACTCTTCTGTAT	26690
QY	1271	CTATTTTCTTTATTTGCTATATATCCAGATCTTAAGACAGTCTGACATATAGAGTGTCT	1330
Db	26689	TCTTTATTTCTGTTTCAATGATCTGTCTTTTGGTTTCAAGTATCATATATTTTGTTTT	26630
QY	1331	CAATTAATTAATGTAGTGAATGCACAGCCTAGATATAACTTTCTTTTCTTTTAAAAAC	1390
Db	26629	GTTTCTATAGCTTAAATATATATTTT---TTTTGAAATAGGGTCTCACTGTGACACC	26573
QY	1391	AATCTTGACACTTTTGCAGAAATTAATTAATCTTGCATCTGTCTTTTCACTTAATCACT	1450
Db	26572	AGGCTGAAGTGTACTGTGTGTATCATAGGCTCACTGTGATCTTCAACCTCTTAATATCA--T	26514
QY	1451	TGTTATGACTTTTTCATATTTGCTCAAACTTATATTTTACTGTTTTCATTTGTATCA	1510
Db	26513	TGATCTCTCCACCTCAAGCTCTCAAGTATGTGACCAACATGTTTGGCTAATTTTAAAT	26454
QY	1511	TTTTAGTCACTGAATTAATATAGCTTAATTTTCTTAATCATCTCTGCTCACTTTAGAA	1570
Db	26453	TTTTTGTAGAAACAGAGTCTTGGCATATCAACAGGCTGGTCTTGAACCTCGGGCTGAA	26394
QY	1571	GGCCAAATTTTACAATCTGATGAAAGGTATGAAACCTCTCCCAAGAAATACACACACA	1630
Db	26393	G---AGATCCGCTGACTCTACTCTCCCAAGTCTGGAAATTAAGGTGTGACCACTTGG	26337
QY	1631	CACACACACTCACACAGTTTTTTTTTATATGTTTGCACATAGACAGAA-----A	1682
Db	26336	CCGAGCCAAAAATATGTTTTTGGCAATCACTGAGTGGGGGTTCAAGACAGCCTGG	26277
QY	1683	CTTGCATTTAAGGATGTTTTGTTCATATTAATTAATAATCACTGTTGGGCACTGACT	1742
Db	26276	CCAACTAATGGCAAACTTGTCTCTTAAGAAATACAAAAATTAATCTGGGCCAGATGCT	26217
QY	1743	CAAGCTGTGAACACAGTACTTTTGGAAAGTCAAGGTGGGGTGCATCTTGAAGTGAAG	1802
Db	26216	CATGTCTGTAAATTCAGTACTCTGGAAAGGCGAAGGATGATCACTGAAGTCAAGAG	26157
QY	1803	TTTCAGACAGAGCTGTGCAATATGTGAACCTTATCTTACTTAATAATAAAATTTAG	1862
Db	26156	TTTAAAGACAGAGCTGGCCAACTGTGAAACCTGTCTCTACTAATAAAATTAATAAATTAG	26097
QY	1863	CTGGGTTATGATGATGATGCTGTGATAGTCCAGCTACTCGGGAGGCTGAGGCAAGAAATT	1922
Db	26096	CTGGGCGTGGTACCGGTGCTGTAAATCCAGTCACTCAGAGGCTGAGGCGAGGAATTC	26037
QY	1923	GCTTGAACCTTGGAGGCGAAGGTTTGCAGTGAAGCCGATATCCACCACTGCACTCCAGCT	1982
Db	26036	ACTTGAACCTTGGAGGTAAGGTTTGCAGTGAAGCCGATATCATGCTCATTTAGCT	25977
QY	1983	GGGGGACACAGCAGACTTATCTCAAAAAAATAAATAAATAAATAA 2030	
Db	25976	GGGGGACAGCAGACTTGTCTCAAAAAAGAAAAAGAAAAAAA 25929	

ACN44170/C	ACN44170 standard; DNA, 196686 BP.
AC	ACN44170;
AC	18-NOV-2004 (first entry)
DT	Human genomic sequence hCG39530.
DE	Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.
KM	Homo sapiens.
OS	WO2003073826-A2.
PN	12-SEP-2003.
PD	28-FEB-2003; 2003WO-US006235.
PF	01-MAR-2002; 2002US-00087192.
PR	(SAGR-) SAGRES DISCOVERY.
PA	Morris DW;
XX	WPI; 2003-328604/31.
XX	Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX	comprises a nucleotide sequence.
PT	Claim 1; SEQ ID NO 484; Opp; English.
XX	The present invention relates to novel DNA and protein sequences which
XX	are associated with carcinomas. The sequences are useful for: (i) for
CC	screening drug candidates; (ii) for screening of bioactive agent capable
CC	of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
CC	a bioactive agent capable of modulating the activity of CAP; (iv) for
CC	evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
CC	carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
CC	carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
CC	(x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
CC	determining Carcinoma Associated (CA) gene copy number. In addition, the
CC	CA genes are useful as DNA vaccines and the CAP are useful as markers of
CC	carcinoma including lymphoma. The present sequence is one such CA coding
CC	sequence. Note: This patent is an equivalent to basic patent
CC	US2002182586A1, for which no sequence data was published
XX	Sequence 196686 BP; 53978 A; 42758 C; 43862 G; 55372 T; 0 U; 716 Other;
SQL	
Query Match	16.6%; Score 414.2; DB 11; Length 196686;
Best Local Similarity	60.7%; Pred. No. 3.7e-75;
Matches	869; Conservative 1; Mismatches 464; Indels 97; Gaps 8;
QY	605 TTTTGTGTTGTTGTTTGAAGACAGGGCTTCTCTGTGACCCAGGCGATGACAGATG 664
DB	98993 TTCAATCATTTATTCATTCGAGATGGGGTCTTCTCTGTGTCACGGCTGAGTGAATG 98934
QY	665 GTGGAACATAGAGCACTGAGAGCTCAACCTCTGAGCTCAAGGATCTGCTGACCTGAC 724
DB	98993 GTGGAATCTGGCTGCACTGCAACCTCCACCTCCAGGATTCATAGTATTCCTCTGCTCAG 98874
QY	725 CCTCCCAAGTAGCTGGAGCTACGAGCGGTGACCAACGAGCGCTGGCTTAATTTAAAAATTT 784
DB	98873 CTCCTGAGTATCTGGAGATTCAGACACCTGCGCACACACCGCGATATTTTGTGTA--TT 98816
QY	785 TTTTGTGAGAGACTGGGTCTTACTAGCTTGAGCTGACGAGCTTGTCTTAACTCTGGCTTCAAG 844
DB	98815 TTTTGTGAGAGATGGAGTTTACCATGTTGGCCAGCTGTGCTTCAAACTCTGACCTCAAA 98756
QY	845 CAATCCCTTCACCTTGGCACTCCCAAAAGTGTGGGATTTAAGAGGGGTAGCACCACCATGTGG 904
DB	98755 GGAATCCACCACTTGGCTCTCCCAAAAGTGTGGGATTTAAGAGGATAGCCACTGCGCCCA 98696


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QY 905 GCTACTATTTCTTACATTCATCTTTCATATGTAAGATCCACAGAGGGAT 964
DB 98695 GCGATGTACATTTAATTTACTATATCTCTTTGGT-----CACCATCTTGCTT 98644
QY 965 TACTGCTAATTTCTTCTCTTCTTTTGGAGACAGAGTCTCATCTTCACCTCAACCTC 1024
DB 98643 TTTTCTTTTCTTTTCTTTTCTTTTGGAGACAGAGTCTTGCTGTGCGCCAGGGCTGG 98584
QY 1025 CGT-----TCAGCTCATGCAACCTCTGCTCTCCGGGTTCAAGTATCTC 1070
DB 98583 AGTGCAGTGGCGGCATCTCGGCTCATGTCAGACTCCGCTCCCTGGCTCAAGCATCTC 98524
QY 1071 CTGCTTAAGCTCTCGAGTACTGGAATTAACAGCGTGCACACACATGCTGGCTAATTT 1130
DB 98523 CTGCTCTAGCTCTCCAGATGACTGGAGTACATGTCACACACACCGCCGAGAGATTT 98464
QY 1131 TTTGTATTTTGGAGAGATGGGTTTTCATGTTGCCAGGCTGTCTCAAACTCCCTG 1190
DB 98463 TTTGTATTTTAAATGAGACCGGGTTTTCACCGTGTACCGAGATGCTCGATCTCTG 98404
QY 1191 ACCTCAAGTATCTGCTGCTGCTCACTCTCCAAAGTCTGCAATTATAGGGTGAATC 1250
DB 98403 ACCTC--GTGATCCACCCACCTCACTGCTCCAAAGTCTGGAGTACAGAGTGCCAC 98346
QY 1251 TGTGCTGGCCGATTAATCTGTATTTCTTATTTGCTATATCCCAATCTAGACAGTG 1310
DB 98345 TGGGCGCCGCCACCACTGCTGCTCTGATTTGCTTTTCTTTTCTTCTGAGAG----- 98291
QY 1311 TCTGACATATAGTAGTGTCTCAATTAATTAATGATGAATGCAAGCTAGATATAACTT 1370
DB 98290 -----AGGAATTC 98283
QY 1371 TCTTTTCTTTTAAACAATCTTGACAACTTTCAGAAATTAATACATCTTGATTC 1430
DB 98282 TATATGTTCTTCCACCATATCTCTAATATACCTTCTTCTCTAATATCTAATACTA 98223
QY 1431 TGTCTTTTCACTTACACCTGTTATGACCTTTTCAATATGCTCAAACTTATTTGTTA 1490
DB 98222 TATATACATACATATAGTGTATATATATATATGATATATATATATATATAT 98163
QY 1491 CTGTTTTTCAATTTTACTATTTTATGTCACGTAATATATATGCTTATTTGCTTATCAT 1550
DB 98162 ATATATATACACAGTCTTATATATATATATATATATATATATATATATATATAT 98104
QY 1551 CCTCTGCTCCACTTTAGAGGCCAAATTTACAAATCTGATGAAAGCTATGAACTCTC 1610
DB 98103 -----AAACCTATMAAAGACCTTAAACAAAGTATAGATGAGAACTTGAAGTGC 98051
QY 1611 CCCAGAGAAATACACACACACACACACACACAGTCTTTTATATATGTTTGCAC 1670
DB 98050 CCAGATATMAAATTTTGTCTCAAAAGTCTCACTTTGTTTATATGTTTATCTCTCAATA 97991
QY 1671 TAAAGCAAGAAACCTGCATTAGAGATGTTTGTCTATATTAATTAATAAATA-----CTCA 1726
DB 97990 TATTTATCTATTTGGCAATTAACATTAATTTTGTGTTGTCACAAATAATAGCTCTCG 97931
QY 1727 GTTGGCACAGTGAATCAAGCTCTTAACACAGTACTTTGGAAGTCCAAAGTGGGTGAT 1786
DB 97930 GCTGACACAGGTGCTCAAGCTCTTAATCCAGCACTTTGGAGAGGCCGAGAGGGGTGAT 97871
QY 1787 CACTGAGGTGAGAGTTCAGAGCCAGCTGATCAATATGTAAGAAACCTATCTCTACTA 1846
DB 97870 CAC--CAGGTACAGAGATGAGACATCTCTGGCCAAACATGTAATACTCTCTCTACTA 97813
QY 1847 AAAATATCAAAAAATTAGCTGGGTGTAGTATGATGCAATGCTGATCTCCAGCTACTCGGAG 1906
DB 97812 CAAATATCAAAAAATTAGCTGGGTGTAGTATGATGCAATGCTGATCTCCAGCTACTCGGAG 97753
QY 1907 CTGAGGCAAGAAATTTGCTTGAACCTGGAGGCAAGGTTTGAAGTGAAGCCGAGATCTCCAC 1966
DB 97752 CTGAGGCAAGAAATTTGCTTGAACCTGGAGGCAAGGTTTGAAGTGAAGCCGAGATCTCCAC 97693
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QY 1967 CACTGCACTCCAGCTGGGCGACACAGCGAGACTATCTCAAAAAATAA 2017
DB 97692 CACTGCACTCCAGCTGGGTGAGACAGCGAGACTATCTCAAAAAATAA 97642

RESULT 13
ADP68568/c
ID ADP68568 standard; cDNA; 86000 BP.
XX
AC ADP68568;
XX
DT 09-SEP-2004 (first entry)
XX
DE Human PPAR-alpha cDNA.
XX
KM cytosolic; gene therapy; PPAR-alpha;
KM peroxisome proliferator-activated receptor-alpha; PPAR-alpha modulator;
KM PPAR-alpha associated disorder; hyperproliferative disorder; human; gene;
ss.
XX
OS Homo sapiens.
XX
EN US2004115637-A1.
XX
PD 17-JUN-2004.
XX
PE 11-DEC-2002; 2002US-00317500.
XX
PR 11-DEC-2002; 2002US-00317500.
XX
PA (ISIS-) ISIS PHARM INC.
PI McKay R, Dobie KM;
DR WPI; 2004-449378/42.
XX
PT New oligonucleotide compound that inhibits expression of PPAR-alpha,
PT useful for preparing a composition for treating hyperproliferative
PT disorders, e.g. cancer.
PS
PS Claim 1; SEQ ID NO 4; 121bp; English.
CC
CC The invention describes a compound, having a sequence comprising 8-80 bp
CC targeted to a nucleic acid encoding PPAR-alpha (peroxisome proliferator-
CC activated receptor-alpha), that specifically hybridizes with the nucleic
CC acid encoding PPAR-alpha comprising 86001-bp sequence and inhibits
CC expression of PPAR-alpha. Also described are: a method of inhibiting the
CC modulator of PPAR-alpha; a diagnostic method for identifying a disease
CC state; a kit or assay device comprising the compound; and a method of
CC treating an animal having a disease or condition associated with PPAR-
CC alpha. The oligonucleotide compound is useful for preparing a composition
CC for treating hyperproliferative disorder e.g. cancer. This sequence
CC represents a human peroxisome proliferator-activated receptor-alpha (PPAR
CC -alpha) cDNA.
SQ
Sequence 86000 BP; 22822 A; 19623 C; 20377 G; 23178 T; 0 U; 0 Other;

Query Match 16.6%; Score 413.6; DB 12; Length 86000;
Best Local Similarity 61.0%; Pred. No. 4.1e-75; Indels 71; Gaps 10;
Matches 878; Conservative 1; Mismatches 490;

QY 605 TTTTCTTTGTTGTTTATAGAGACAGGGTCTGTCTGTCACCCAGGATGACAGAGTG 664
DB 69228 TTTTCTTTTCTTTTCTTTTATGAGACGAGTCCGACTCTGTGCGCCAGGCTGAGTGCAGTG 69169
QY 665 GTGCAACATAGTCACTGCACTGCAACCTCTGAGCTCAAGGATCTGCACTCAG 724
DB 69168 GTGCACTCTCAGCTCACTGCAACCTCCGCTCCGGTTCAAGCTATTTCTCTGCTCAT 69109
QY 725 CTTCCCAAGTACTGGGACTACAGAGCTGACACCAAGCCCTGGCTATTTAAAAATTT 784
DB 69108 CTTCCCAAGTACTGGGATTAACAGGTGTGCACTACCAATGCCCACTAATTTTGTAA--TT 69051
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QY	1865	GGGGTGTGATGATGATCCCTGTAGTCCACAGTACTCGGGAGGCTGAGGGCAAGAAATTGC	1924
,Db	68039	GGGATGATGTATGTAAATGCTGTATGTCACAGCTACTAATGGAAGGCTGAGTAGCAATTCAC	67988
QY	1925	TTGAACCTGGGAGGACAGAGGTTTGCATGAGACCGAGATCCCACTGACCTCCAGGCTTG	1984
Db	67979	TTGAACCCAGAGAGGCGGAGGTTTCAGATGAGCTGAGATTTGTGCCACTTCGCACTCCAGGCTTC	67922
QY	1985	GCGACACAGCGAGACTTATCTCAAAAAAAAAATAAATTAATTAATAAAGATCGGAGAGAA	2044
Db	67919	GCGACAGAGTGAGATCTTCATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAGAA	67866

RESULT 14

ADQ97523/c
ID ADQ97523 standard; DNA; 215974 BP

AC ADQ97523;

DT 07-OCT-2004 (first entry)

DE Human cancer associated sequence HD09-008, SEQ ID 500

KW Cytostatic; Gene Therapy; cancer; leukemia; Lymphoma; Human; ds.

OS Homo sapiens.

PN WO2004060304-A2.

PD 22-JUL-2004.

PF 22-DEC-2003; 2003WO-US041389.

PR 27-DEC-2002; 2002US-00330773.

PA (SAGR-) SAGRES DISCOVERY INC.

PI Morris DW, Malandro MS;

DR WPI; 2004-543781/52.

PT New isolated cancer associated nucleic acids comprising at least 10

PT cancers such as leukemia and lymphoma.

PS Claim 1; SEQ ID NO 500; 199pp; English.

CC The present invention relates to cancer associated sequences (ADQ97025-
CC 200304) and to methods for identifying and/or detecting cancer associated

CC treatment of cancer, such as leukemia and lymphoma. Note: The sequence

CC was obtained in electronic format directly from WIPO at

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Best Local Similarity 59.6%; Pred. No. 5e-75;

[illegible]

404C 470C

[illegible]

4796 4797

720 700 680 660 640 620 600 580 560 540 520 500 480 460 440 420 400 380 360 340 320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0

4726 4670

790 TAGAGACTGGGTCCTTACTACGGTTGGCCACGGCTTGTCTTAAACCTTCCTTGCCTTACAAACCAATC 849

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OM nucleic - nucleic search, using sw model

Run on: February 17, 2006, 09:56:20 ; Search time 12639 Seconds
(without alignments)
11248.158 Million cell updates/sec

Title: US-10-607-806-1-C7256_COPY_7000_9500

Perfect score: 2499

Sequence: 1 gtcgtgcacgcgtcgtccag.....cttgagaccacgcctgcacaa 2501

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl:*
1: gb_ba:*
2: gb_in:*
3: gb_env:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
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10: gb_srs:*
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12: gb_un:*
13: gb_vl:*
14: gb_hsg:*
15: gb_pl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2497.4	99.9	8368	8	AY438977 Homo sapi
2	2497.4	99.9	13612	6	AX377239 Sequence
3	2497.4	99.9	122302	8	AC003982 Homo sapi
4	2497.4	99.9	220384	14	AC078926 Homo sapi
5	2111.2	84.5	189729	14	AC073930 Homo sapi
6	462.6	18.5	178887	14	AC068981 Homo sapi
7	462.6	18.5	190162	8	AC009244 Homo sapi
8	460.4	18.4	123192	14	AP000589 Homo sapi
9	460.4	18.4	150266	8	AC022408 Homo sapi
10	459.4	18.4	167996	8	AC021753 Homo sapi
11	457.4	18.3	137693	8	AC003689 Homo sapi
12	456.2	18.3	201460	8	AP003721 Homo sapi
13	451.2	18.1	195986	14	AC116933 Papio anu
14	449.2	18.0	134210	8	AC005052 Homo sapi
15	447.8	17.9	131943	8	AC005484 Homo sapi
16	447.8	17.9	136119	8	HS1028D15 Human DNA
17	447.8	17.9	186197	14	AL627384 Human DNA
18	446.2	17.9	163681	8	AL136992 Human DNA

19	445	17.8	117336	8	AC093171 Homo sapi
20	442.6	17.7	91927	8	AC004771 Homo sapi
c 21	441.8	17.7	200430	8	AC011500 Homo sapi
c 22	439.4	17.6	180076	14	AC022177 Homo sapi
c 23	438.8	17.6	201227	14	AC160565 Pan trogl
c 24	438.6	17.6	163704	14	AC141415 Pan trogl
c 25	438.2	17.5	199045	14	AC149081 Pan trogl
c 26	437.8	17.5	185574	14	AC161822 Pan trogl
c 27	435.8	17.4	203790	8	AC010422 Homo sapi
c 28	435	17.4	119043	8	AC139451 Homo sapi
c 29	435	17.4	163542	14	AC129071 Pan trogl
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c 31	434.2	17.4	152659	8	AL591503 Human DNA
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c 33	433.2	17.3	89448	8	AC005067 Homo sapi
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c 43	430.8	17.2	118396	8	AC073138 Homo sapi
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ALIGNMENTS

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DEFINITION complete cds.
ACCESSION AY438977
VERSION AY438977.1 GI:37953284
KEYWORDS
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ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo
1 (bases 1 to 8368)
REFERENCE
AUTHORS Rieder,M.J., Livingston,R.J., Daniels,M.R., Chung,M.-W.,
Miyamoto,K.E., Nguyen,C.P., Nguyen,D.A., Poel,C.L., Robertson,P.D.,
Schackwitz,W.S., Sherwood,J.K., Witrak,L.A. and Nickerson,D.A.
DIRECT SUBMISSION
TITLE Submitted (16-OCT-2003) Genome Sciences, University of Washington,
JOURNAL 1705 NE Pacific, Seattle, WA 98195, USA
COMMENT To cite this work please use: NIHES-SNPs, Environmental Genome
Project, NIHES ES1478, Department of Genome Sciences, Seattle, WA
(URL: <http://esp.gs.washington.edu>).

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variation

variation

variation

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Matches 2495; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

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DB 3554 CTATGCTGTCACCTACTCTATCTGAGCTGTCCTCCCACTTCCAGAGTCCAGA 3613

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ACCESSION	AX377239		
VERSION	AX377239.1	GI:19573528	
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	Homnidae; Homo.		
REFERENCE			
AUTHORS	Kazemi, A., Kitem, S.E. and Koshy, B.		
TITLE	Haplotypes of the pla2g1b gene		
JOURNAL	Patent: WO 0212562-A 1 14-FEB-2002;		
	Genaisance Pharmaceuticals, Inc. (US)		
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[illegible][illegible]

between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:
all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:

This clone was originally isolated in the laboratory of Professor Greame Bell, Howard Hughes Medical Institute and Departments of Biochemistry and Molecular Biology, and Medicine, The University of Chicago, Chicago, IL, USA. The clone was provided by the laboratory of Dr. Roger Cox at The Wellcome Trust Centre For Human Genetics, Oxford, UK. Some contig information was also obtained from Yamagata et al., Nature 384:455-8 (1996).

SOURCE INFORMATION:

This clone was derived from human PAC library RPCT-1, prepared by Pieter de Jong and coworkers at the Roswell Park Cancer Institute (<http://bacpac.med.buffalo.edu>) using the method described by Ioannou et al., Nature Genetics 6:84-9 (1994). The library is from one male donor.

The clone may be obtained either from Genome Systems, Inc.

(<http://www.genomesystems.com>) or Research Genetics, Inc.

(<http://www.regen.com>); or from Pieter de Jong.

VECTOR: PCYPAC2

NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the left is 278C19; the clone sequenced to the right is 15E1. Actual start of this clone is at base position 1 of 166H; actual end is at 122302 of 166H.

Location/Qualifiers

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REFERENCE
 AUTHORS
 Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-osman, F.R., Allen, C.,
 Altscherts, S.L., Amaral, H.C., Are, J.R., Ayala, M., Banks, T.,
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 Weinstock, G., and Gibbs, R.
 Direct Submission
 2 (bases 1 to 220384)
 Worley, K.C.
 Direct Submission
 Submitted (11-AUG-2000) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 3 (bases 1 to 220384)
 Worley, K.C.
 Direct Submission
 Submitted (26-MAR-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 On Mar 26, 2002 this sequence version replaced gi:18449664.
 ----- Genome Center
 Center: Baylor College of Medicine
 Center code: BCM
 Web site: http://www.hgsc.bcm.tmc.edu/
 Contact: hgsc-help@bcm.tmc.edu
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 Center project name: HCM
 Center clone name: RP11-836M11
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 Sequencing method: M13
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 Assembly program: Phrap; version 0.990329
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 Quality coverage: 8.9x in Q20 bases; sum-of-coverage estimation

 * NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
 * NOTE: This is a "working draft" sequence. It currently
 * consists of 11 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
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 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
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Db      70071 CTTATCACCTTGTTATGCTTTTTCATATGCTCAAACTTTATGTTACTGTTTTTTC 70012
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RESULT 5

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SEQUENCE, 8 unordered pieces.
AC073930
VERSION AC073930.23 GI:18958593
KEYWORDS HTG; HTGS PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS

1 (bases 1 to 189729)
Munzy D.M., Adams C., Adio-Oduola B., Ali-Isman F.R., Allen C., Albrooks S.L., Amaralungu H.C., Are J.R., Ayale M., Banks T., Barbara J., Benton J., Bimaga K., Blankenburg K., Bonnin D., Bouck J., Bowie S., Briteva M., Brown E., Brown M., Bryant N.P., Bunay C., Burch P., Burkett C., Burrell K.L., Byrd N.C., Carron T.F., Carter M., Cavazos S.R., Chacko J., Chavez D., Chen G., Chen R., Chen Z., Chowdhry I., Christopoulos C., Cleveland C.D., Cox C., Coyle M.D., Dathorne S.R., David R., Davila M.L., Davis C., Davy-Carroll L., Dederich D.A., Delaney K.R., Delgado O., Dem A.L., Ding Y., Dinh H.H., Douthwaite K.J., Draper H., Dugan-Rocha S., Durbin K.J., Earnhart C., Edgar D., Edwards C.C., Elhaj C., Escoto M., Falls T., Ferraguto D., Flagg N., Ford J., Foster P., Frantz P., Gabisi A., Gao J., Garcia A., Garner T., Garza N., Gill R., Gorrell J.H., Guevara W., Gunaratne P., Hale S., Hamilton K., Harris C., Harris K., Hart M., Havlak P., Hawes A., Hernandez J., Hernandez O., Hodgson A., Hogue M., Holloway C., Hollins B., Hombl P., Howard S., Huber J., Hulyk S., Hume J., Jackson L.E., Jacobson B., Jia Y., Johnson R., Jolivet S., Joudah S., Karlsson J., Kelly S., Khan U., King L., Korvan J., Kovar C., Kratovic J., Kureshi A., Landry N., Leal B., Lewis L.C., Lewis L., Li J., Li Z., Lichtarge O., Lieu C., Liu J., Liu W., Louised H., Lozado R.J., Lu X., Lucier A., Lucier R., Luna R., Ma J., Maheshwari M., Mapa P., Martin R., Martindale A., Martinez E., Massey E., Mawhinney E., McLeod M.P., Meador M., Mei G., Metker M., Miner G., Miner Z., Mitchell T., Mohabbat K., Morgan M., Morris S., Moser M., Neal D., Newton J., Newton N., Nguyen A., Nguyen N., Nguyen N., Nickerson E., Nwokkwo S., Ogih M., Okunomu G., Oragunye N., Oviedo R., Pace A., Payton B., Peery J., Perez L., Peters L., Pickens R., Primus E., Pu L.L., Quiles M., Ren Y., Rivers M., Rojas A., Rojudoan I., Rolfe M., Ruiz S., Savary G., Scherer S., Scott G., Shen H., Shoostari N., Sisson I., Sodergren E., Sonaike T., Sparks A., Stanley H., Stone H., Sutton A., Svalok A., Taber P., Tamerisa A., Tamerisa K., Tang H., Tansey J., Taylor C., Taylor T., Telirod B., Thomas N., Thomas S., Usmani K., Vaquez L., Vera V., Villalob D., Vinson R., Wang Q., Wang S., Ward-Moore S., Warren R., Washington C., Watlington S., Williams G., Williamson A., Wleczek R., Wooden S., Worley K., Wu C., Wu Y., Wu Y.F., Zhou J., Zorrilla S., Nelson D., Weinstock G. and Gibbs R.

TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

Submitted (01-MAR-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
On Feb 27, 2002 this sequence version replaced gi:14861669.
----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-help@bcm.tmc.edu


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* 36529 39558: contig of 3030 bp in length
* 39559 39658: gap of unknown length
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Best Local Similarity 62.1%; Pred. No. 1.3e-83;
Matches 890; Conservative 1; Mismatches 485; Indels 57; Gaps 8;

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Oy 780 AATTTTGTAGAGACTGGGCTCTAATGCTTGGCCAGGCTTGTAACTCTGGCT 839
Db 90440 A--TTTCTGTAGAGACAGGTTTTCGATGTTGCCATGCTGATTTCAAACTCTGAGC 90383

Oy 840 TCAAGCAATCTCTTACCTTGCGATCCCAAGTGTGCGGATTAACAGGAGTGAACCACT 899
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 AC009244
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 KEYWORDS
 SOURCE
 ORGANISM
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.

1 (bases 1 to 190162)
 Kaul, R.K., Olson, M.V., Zhou, Y., James, R.A., Rouse, G., Wu, Z.,
 Saenphimachak, C., Phelps, K.A., Buckley, D., Kibukawa, M., Raymond, C.
 and Haugen, E.D.

Direct Submission
 Unpublished
 2 (bases 1 to 190162)
 Bubb, K.L., Desmarais, C.L., Ramsey, S.A. and Hubley, R.M.

Direct Submission
 Submitted (07-AUG-1999) Human Genome Center, University of
 Washington, Box 352145, Seattle, WA 98195, USA
 3 (bases 1 to 190162)
 Kaul, R.K., Zhou, Y., James, R.A., Raymond, C., Haugen, E.D. and
 Olson, M.V.

Direct Submission
 Submitted (30-OCT-2000) Genome Center, University of Washington,
 Box 352145, Seattle, WA 98195, USA
 4 (bases 1 to 190162)
 Kaul, R.K., Olson, M.V., Zhou, Y., James, R.A., Rouse, G., Wu, Z.,
 Saenphimachak, C., Phelps, K.A., Buckley, D., Kibukawa, M., Raymond, C.
 and Haugen, E.D.

Direct Submission
 Submitted (26-MAY-2002) Genome Center, University of Washington,
 Box 352145, Seattle, WA 98195, USA
 On May 26, 2002 this sequence version replaced gi:11038533.

Genome Center
 Center: University of Washington Genome Center
 Center Code: UWGC
 Web site: <http://www.genome.washington.edu>
 Contact: uwgchgs@u.washington.edu

Project Information
 Center project name: chr-7
 Center clone name: RP11-305M3 (d3s195)

Summary Statistics
 Assembly program: Phrap; version 0.990319
 Consensus quality: 18969 bases at least Q40
 Consensus quality: 190110 bases at least Q30
 Consensus quality: 190161 bases at least Q20
 Insert size: 190162; sum-of-contrigs
 Quality coverage: 9.7x in Q20 bases; sum-of-contrigs

Overlapping Sequences:
 5': RP11-382M23 (UWGC:d3s734g) AC093149 1340-bp overlap
 3': RP11-448A19 (UWGC:d3s705) AC078846 8765-bp overlap

Sequence Quality Assessment:
 This entry has been annotated with sequence quality
 estimates computed by the Phrap assembly program.
 All manually edited bases have been reduced to quality zero.
 Quality levels above 40 are expected to have less than
 1 error in 10,000 bp.
 Base-by-base quality values are not generally visible from the
 GenBank flat file format but are available as part
 of this entry's ASN.1 file.

This sequence was finished as follows unless otherwise noted:

all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., Phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest.

Sequence Validation:

This sequence has been validated by Multiple Complete Digest fingerprinting. Comparison of the experimentally derived digest fragments with sequence-predicted fragments is given below. The electronically-digested sequence consists of both insert and vector, in order to accurately represent the entire circular BAC. Small fragments below a variable cutoff (approximately 400-800 bp) are not resolved in the fingerprint and hence do not appear in the table. There are no significant remaining discrepancies between the experimental and predicted values. Uniquely ordered fragments are separated by dashed lines.

NcII

BgIII

EcoRI

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Query Match 18.5%; Score 462.6; DB 8; Length 190162;
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 QY 1943 GTTTCAGTGAAGCCGAGATCCACACTGCACTTCAGCTGGGCGACACAGGACTCT 2002
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RESULT 8

AP000589

LOCUS

DEFINITION

DRAFT SEQUENCE, 19 unordered pieces.

AP000589

KEYWORDS

HTG, HTGS, PHASE1, HTGS_DRAFT.

SOURCE

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

Homidae; Homo.

REFERENCE

AUTHORS

1 (bases 1 to 123192)

Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,

Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.

Homo sapiens 123,192 genomic DNA of 11q13

Published Only in Database (1999)

2 (bases 1 to 123192)

Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,

Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.

Direct Submission

Submitted (12-OCT-1999) Masahira Hattori, The Institute of Physical

and Chemical Research (RIKEN), Genomic Sciences Center (GSC);

Kitasato Univ., 1-15-1 Kitasato, Sagamihara, Kanagawa 228-8555,

Japan (E-mail:hattori@gsc.riken.go.jp,

URL:htp://hgp.gsc.riken.go.jp/, Tel:81-42-778-9923,

Fax:81-42-778-9924)

On May 31, 2000 this sequence version replaced gi:6997479.

Genome Center

Center: RIKEN Genomic Sciences Center(GSC)

Center code: hgp.gsc.riken.go.jp/

Web site: htp://hgp.gsc.riken.go.jp/

Contact: hattori@gsc.riken.go.jp

Project Information

Center project name: HumDrafc11

Center clone name: CMB9-105N5

Summary Statistics

Sequencing vector: PCR products; 100% of reads

Chemistry: Dye-terminator ET-amersham; 100% of reads

Assembly program: Phrap; version 0.990329

Consensus quality: 115116 bases at least Q40

Consensus quality: 118340 bases at least Q30

Consensus quality: 120191 bases at least Q20

Insert size: 121392; sum-of-contrigs

Quality coverage: 5.08x in Q20 bases; sum-of-contrigs

NOTE: This is a 'working draft' sequence. It currently consists of 19 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs 'N', but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence


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 Matches 889; Conservative 1; Mismatches 487; Indels 57; Gaps 8;

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 Db TGTGATTTTGTGTTGTTGTTGTTGAGCTCGGGCTGTGTGCCACGGCTGGAGTGTG 52197
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 Qy 1380 TTTTAAAAACAATCTTGACAACTTTGACAAATTAATCAATCTTGCAATTTGCTTTTTC 1439
 Db 52892 TGGCTGGACAAATCAATGCTAGGAGCTCA-----GTGA 52930
 Qy 1440 ACTATGACCTTGTATGACTTTTTCATATTTGCTCAAACTTTATTTTACTGTTTTTT 1499
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 Db 53106 CAATTTACAGCTTTCAAAAAATTAATTTGTTTCTACTGAAATTAACGTAGAGAAAG 53165
 Qy 1680 AAACCTGCA--TTAGAGATGTTTGTTCATATTAATTAATAAATACTCACTGGGCA 1736
 Db 53166 AACACAGTAAGCTAAATATGATGAAATTAATCCCTTAATAAACAAATTCACCGGGCAG 53225
 Qy 1737 GTGACTCAAGCTTTAACAACAGTACTTTGGAATCCAGGTGGGTGATCATCTTGAGT 1796
 Db 53226 GTGACTCAAGCTTTAACAACAGTACTTTGGAATCCAGGTGGGTGATCATCTTGAGT 53283
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 Db 53284 CAGGGGCTCAGACCACTGCTGATGATGATGATGATGATGATGATGATGATGATGAT 53343
 Qy 1857 AATTAGCTGGGTGTAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 1916
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 Db 53464 CAGCCTGGGCGACAGAGCAGACTCTATCTCAAAAAATAATTAATAATAA 53517

RESULT 10
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 DEFINITION
 ACCESSION AC021753
 VERSION AC021753.7 GI:16507213
 KEYWORDS HTG.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE
 AUTHORS Roman,L., Madan,A., Qin,S., Baradarani,L., Birditt,B., Bloom,S., Burke,J., Dors,M., Fleetwood,P., Kaur,A., Madan,A., Nesbitt,R., Pate,D. and Hood,L.
 TITLE Sequencing of human chromosome 15 D15S146-D15S117 region
 JOURNAL Unpublished
 REFERENCE

REFERENCE
 AUTHORS Roman,L., Madan,A., Qin,S., Abbasi,N., Baradarani,L., Birditt,B., Bloom,S., Dors,M., Dickhoff,R., Fleetwood,P., Harrison,G., James,R., Kaur,A., Madan,A., Owen,M.P., Ratcliffe,A., Shaffer,T. and Hood,L.
 TITLE Direct Submission
 JOURNAL Submitted (20-JAN-2000) Multimegabase Sequencing Center, University of Washington, PO BOX 357730, Seattle, WA 98195, USA
 REFERENCE

REFERENCE
 AUTHORS Roman,L., Madan,A., Qin,S., Baradarani,L., Birditt,B., Bloom,S., Burke,J., Dors,M., Fleetwood,P., Kaur,A., Madan,A., Nesbitt,R., Pate,D. and Hood,L.
 TITLE Direct Submission
 JOURNAL Submitted (29-OCT-2001) Multimegabase Sequencing Center, Institute for Systems Biology, 4225 Roosevelt Way NE, Suite 200, Seattle, WA 98105, USA
 COMMENT
 On Oct 29, 2001 this sequence version replaced gi:11136698.
 ----- Genome Center
 Center: Multimegabase Sequencing Center
 Web site: http://chroma.mbt.washington.edu/msg_www
 Contact: leetownesystembiology.org
 ----- Summary Statistics
 Sequencing vector: pUC18, 108752
 Chemistry: Dye-terminator Big Dye, 90% of reads

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

Schageman, J., Schultz, R.A., Stimson, S., Syed, M. and Ward, T.

TITLE HTGS Submission
JOURNAL Unpublished

REFERENCE	2 (bases 1 to 137693)
AUTHORS	Evans,G.A., Athanasiou,M., Basit,M., Bradbury,P., Brignac,S., Buneslter,R., Davas,C., English,C., Franklin,T.L., Garner,H.R., Gee,V., Gordon,M., Gotway,G., Grant,O., Hahner,L., Harris,J., Hinson,S., Narayanaswamy,U., Newton,J., O'Brien,K., Patel,P., Schageman,J., Schilling,P., Schultz,R., Syed,M., Valenzuela,D., Ward,T. and Wilson,R.
JOURNAL	Direct Submission
REFERENCE	Submitted (17-DEC-1997) Genome Science & Technology Center, University of Texas Southwestern Medical Center, 5323 Harry Hines Blvd, Dallas, TX 75235-8591, USA
AUTHORS	3 (bases 1 to 137693)
	Evans,G.A., Athanasiou,M., Aguayo,P., Armstrong,D., Basit,M., Buettner,J., Butler,C., Card,P., deSallboac,F., Dunn,J., English,C., Ehtidjge,S., Garner,H.R., Gee,V., Gordon,M., Gotway,G., Grant,O., Hahner,L., Joslin,J., Lewis,E., Loo,H., Loo,K.N., Major,T., McFarland,J., Newton,J., Osborne-Lawrence,S., Schageman,J., Schultz,R.A., Stimson,S., Waller,K. and Ward,T.
JOURNAL	Direct Submission
	Submitted (21-NOV-1998) Genome Science & Technology Center, University of Texas Southwestern Medical Center, 5323 Harry Hines Blvd, Dallas, TX 75235-8591, USA
COMMENT	On Nov 21, 1998 this sequence version replaced gi:2695567. Further information regarding the map of this region or annotation of pDI1081b4 can be found at http://gsesc.nc.su.med.edu/chromosol.htm
	IMPORTANT: This submission contains the entire insert of clone pDI1081b4. pDI1081b4 comes from the RPCI-3 PAC library constructed at the Roswell Park Cancer Institute by the Pieter de Jong group. This clone has been finished according to strict quality criteria and attempts have been made to resolve all base calling problems such as compressions and repetitive elements. The expected phred/Phrap calculated errors/10kb is 0.98. In addition, attempts have been made to assure over 99% of consensus base calls consist of either double-stranded coverage or 2 types of labeling chemistry on one strand.
FEATURES	CHROMOSOMAL LOCUS: This PAC clone comes from the Chromosome 11p12.2 Best's disease region mapped between STS D11S461 and EST AHNAK. This region spans over 1.5 Mbp.
	MARKER CONFIRMATION: ESTs/STS sequence confirmed; CD6, D11S461 MAPPED CLONE OVERLAP: PACs pDI50666 and pDI5JL21.
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Best Local Similarity 59.7%; Pred. No. 1.5e-82;
Matches 880; Conservative 1; Mismatches 577; Indels 17; Gaps 6;

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QY 588 TTTGGGTTTTTTTGTGTGTGTTTGAAGAGAGGCTGCTC-TCACCCAGGACATGA 656
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
76572 TTTCTTCTTCTTTTCTTTTCTTTTGAAGACAGAGTTCTCTCTGTGCTCCAGGCTGGA 76631
QY 657 GCACAGGTGTGACCATATGATCAGTCAGCGCTCAACCTCTAGGCTCAAGGATCTGCT 716
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
76632 GTGCATGACCAATCTCGGTTCAACCAACCTCGGCTCCGGGTTCAAGGTTTCTCC 76631
QY 717 GACCTCAGGCTCCCAAGTAGTGGAGCTACGAGCGTGACCAACAGCGCTGCTAATTAA 776
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76752 GTA---TTATTAGTAGAGAGCGGGGTTTCTCCATGTTGATCAGGCTGCTCAGCTCCG 76808
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76809 ACTCTCAGGATCCACCACTCGGCTCCCAAAGTGTGGGATTACAGGGGTGAGCCAT 76868
QY 897 CATGTGCGGCTACTATTTCTTACATTCATCTTTCCAAATGATGTAATCCACAGA 956
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76929 ATCATCTTTGATTTCTTTTGTGAGACAGTCTGCTGTCACAGCGTGGAGTGA 76988
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76989 ATGGCGCAATCTGGCTCACTGCAACCTCTGCTCCGAGGTTCAAGGATTTCTCTGCT 77048
QY 1077 AAGCTCTGAGTAGTGAATTAAGCGTGCACCAACATGCTTGGCTTAATTTT--G 1134
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DB 77049 CAGCTCCAGAGTAGCTGGGATTACAGGTGCGGCCAACAGCTGTGCTACTTTTGT 77108
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DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
77109 ATTTTATGTAAGACAGGGTTTACCATGTTGTGAGGCTGCTCGAATCTCTGACCT 77168
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77169 CAGGTATCCGCTCGCTCAGCTTCCAAAGTGTGGGATTACAGGCAATGAGCCACCGCG 77228
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77229 CCCATGCGCTTGAATCTTGTGAACAAATGATATTAATTAATTAAGCTAAACGT-TA 77287
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77288 TCAATTTCTGTGATCATTAAGGCTGTGACAAATTTCTCTAGATTAATGTTGATTAAG 77347
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77348 ATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 77407
QY 1435 TTTTCA-----CTATCACTGTGTATGACTTTTTCATATGCTCAACCTTAT 1485
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77408 ATATCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 77467
QY 1486 TGTACTGTTTTCATGTTACTATTTTACTGATGATTAATTAATTAATTAATTAATTAAT 1545
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77468 TGGGTTTATGATTTTCTCTCTCACTTAATTAATTAATTAATTAATTAATTAATTAAT 77527
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77648 CAAATATGTCATATGTAATCTAGATGCAAAATTAATTTTACTTTTAAATGATTTGA 77707
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77708 AGGCCAGGTGGGTGCTCAGATATGTAATCAAGCACTTTGSAAGGCCGAGGCGTGG 77767
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77768 ATTACTTGAAGTCAAGAGTGTGAGACAGCTGTGCAATATGATGTAATGTAATGTAATG 77827
QY 1845 TAAAAATTAATAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1904
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77828 TAAAAATTAATAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 77887
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77888 GCGTGAAGCAAGAAATTTGTTAACTGGAGAGGCAAGTTGCACTGAGCCGAGATTTGT 77947
QY 1965 ACCACTGACCTCAAGCTGGGAGGACAGCGGAGCACTATCTCAAAAAATTAATTAAT 2024
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77948 GTCACTGCACTCAAGCTGGGAGGACAGCAAGATTTGTCTCAAAAAATTAATTAATTAAT 78007
QY 2025 AATAAAGGATCGAGAGAAACAAATTAATTAATTAATTAATTAATTAATTAATTAAT 2059
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78008 AAAAAATTAATAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 78042
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LOCUS Homo sapiens genomic DNA, chromosome 11 clone:RP11-881M11, complete
DEFINITION
ACCESSION AP003721

VERSION AP003721.3 GI:31790667
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE
1 Hattori, M., Ishii, K., Toyoda, A., Taylor, T.D., Hong-Seog, P.,
Fujiyama, A., Yada, T., Totoki, Y., Watanabe, H., and Sakaki, Y.,
Homo sapiens genomic DNA
Published Only in Database (2001)
2 (bases 1 to 201460)
AUTHORS Fujiyama, A., Ishii, K., Toyoda, A., Taylor, T.D., Hong-Seog, P.,
Hattori, M., Yada, T., Totoki, Y., Watanabe, H., and Sakaki, Y.,
TITLE Direct Submission
JOURNAL Submitted (04-JUN-2001) Masahira Hattori, The Institute of Physical
and Chemical Research (RIKEN), Genomic Sciences Center (GSC),
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
(E-mail: hattori@gs.c.riken.go.jp, URL: http://hgp.gsc.riken.go.jp/,
Tel: 81-45-503-9111, Fax: 81-45-503-9170)
COMMENT On Jun 16, 2003 this sequence version replaced gi:28189463.
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Matches 877; Conservative 1; Mismatches 574; Indels 17; Gaps 6;
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QY 723 AGCTCCCAATAGTGGAGTCAAGAGGTGACACCAAGCTGGCTAATTAATAAAT 782
DB 144580 AGCTCCGAGTACGTGAGTATCAAGGATGCGCACACCGCAAGCTGATTTGTA--- 144636
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DB 144877 CAATCTCGGCTCACTGCAAACTGCTCCGAGGTTCACGGATTTCTCTCCTCAGCT 144936
QY 1083 CCGTAGTAGCTGAATTAAGAGGAGGACCAAGCAATGCTGGCTAATTTT--GATTTT 1140
DB 144937 CCAAGTAGCTGGAGTTTACAGAGTGGGCGCACACGCTGGCTACTTTTGTATTTT 144996
QY 1141 TAGCAGAGATGGGGTTTACCATGTGGCCAGGCTGTCTCAAACTCTGACTCAAGTG 1200

DB 144997 TAGTAGAGACAGGGTTTCAACATGTTGGTCAGGCTGCTCGAACTCTGACCTCAGGTG 145056
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QY 1381 TTTTAAACATCTTGAACATCTTGAACATCTTGAACATCTTGAACATCTTGAACATCTTGA 1440
DB 145236 ATTCACACATTAACCAAAATTAATGATGATGATGATGATGATGATGATGATGATGAT 145295
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QY 1971 GCACTCAGGCTGGGCAACAGGAGTCTATCTCAAAATTAATTAATTAATTAATTAATTAAT 2030
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QY 2031 AGATCGAGAGAGAAACAACTAATAAGA 2059
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RESULT 13
AC116933
LOCUS AC116933 195986 bp DNA linear HTG 21-DEC-2002
DEFINITION Papio anubis clone RP41-1C24, WORKING DRAFT SEQUENCE, 4 ordered
pieces.
AC116933
AC116933
AC116933.2 GI:27356688
VERSION HTG; HTGS PHASE2; HTGS DRAFT.
KEYWORDS Papio anubis (olive baboon)
SOURCE


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Oy 1130 TTTGATTTTGTAGCAGAGATGGGGTTTATACATGTTGCCAGGCTGCTCAAACTCT 1189
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Oy 1420 ATCTTGATCTGCTTTTCACTTATCACTTGTATGACTTTTTCATATGCTTCAAC 1479
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Db 181338 AATCCATATTCAC-----TACACAAACAAGAGCTTGAAGAACTTCAATCCCACTTGG 181392
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Db 181571 CTGAGTGAAGCGAGATTTGCACTGCACTGCACTGAGCTGAGGAGACAGACCACTCAAT 181630
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Oy 1705 CATATTAATTAATAAATCACTAGTTGGGCAAGTACTCAAGCTGTAACCACTACTT 1764
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Oy 1825 TGGTGAACCCCTATCTCTACTAATAAATAAATAAATTAGTGGGTGTAGTGAATGATGCT 1884
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Oy 1885 GTAATCCAGCTATCTGAGAGGCTGAGGCAAGAGATTTGCTTGAACCTGAGGAGCAGAG 1944
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Oy 1945 TTGCAGTAGCGGAGATCCCACTGCACTTCAAGCTGAGGAGACACAGGAGACTTAT 2004
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RESULT 14
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 DEFINITION Homo sapiens BAC clone CTB-38K21 from Xg23, complete sequence.
 ACCESSION AC005052
 VERSION AC005052.2 GI:10122134
 KEYWORDS HTG.

SOURCE
 ORGANISM Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 REFERENCE
 AUTHORS Sulistion,J.E. and Waterston,R.
 TITLE Toward a complete human genome sequence
 JOURNAL Genome Res. 8 (11), 1097-1108 (1998)
 PUBMED 9847074
 REFERENCE
 AUTHORS Tin-Mollam,A., Graves,T. and Colman,M.
 TITLE The sequence of Homo sapiens BAC clone CTB-38K21
 JOURNAL Unpublished
 REFERENCE
 AUTHORS Waterston,R.H.
 TITLE Direct Submission
 JOURNAL Submitted (12-JUN-1998) Genome Sequencing Center, Washington
 University School of Medicine, 4444 Forest Park Parkway, St. Louis,
 MO 63108, USA
 REFERENCE
 AUTHORS Waterston,R.H.
 TITLE Direct Submission
 JOURNAL Submitted (14-SEP-2000) Genome Sequencing Center, Washington
 University School of Medicine, 4444 Forest Park Parkway, St. Louis,
 MO 63108, USA
 REFERENCE
 AUTHORS Waterston,R.H.
 TITLE Direct Submission
 JOURNAL Submitted (08-NOV-2000) Department of Genetics, Washington
 University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
 On Sep 14, 2000 this sequence version replaced gi:32129939.
 COMMENT
 Center: Washington University Genome Sequencing Center
 Center code: WUSC
 Web site: http://genome.wustl.edu/gsc
 Contact: saplens@wustl.edu
 ----- Summary Statistics
 Center project name: H_RG038K21

NOTICE: This sequence may not represent the entire insert of this
 clone. It may be shorter because we only sequence overlapping
 clone sections once, or longer because we provide a small overlap
 between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:
 all regions were double stranded, sequenced with an alternate
 chemistry, or covered by high quality data (i.e., phred quality >=
 30); an attempt was made to resolve all sequencing problems, such
 as compressions and repeats; all regions were covered by sequence
 from more than one subclone; and the assembly was confirmed by
 restriction digest.

MAPPING INFORMATION:
 This sequence was generated from part of bacterial clone contigs of
 human chromosome X, constructed by the chromosome X mapping group
 at the Sanger Centre, Wellcome Trust Genome Campus, Hinxton, UK.
 Further information can be found at
 http://www.sanger.ac.uk/HGP/ChrX/

SOURCE INFORMATION:
 Clone CTB-38K21 is from the first release of the human BAC library
 CTB-978SK-B. The library contains cloned DNA from the male
 fibroblast cell line 978SK. See: Shizuya et al., Proc. Natl.
 Acad. Sci. USA 89:8794-7 (1992); U-J. Kim et al., Genomics 34:213-8
 (1996). This clone is available from Research Genetics, Inc.
 (http://www.resgen.com).
 VECTOR: pBelobRC11
 Selection: chloramphenicol

NEIGHBORING SEQUENCE INFORMATION:
 The clone sequenced to the right is RP3-327A19, 200 base pair

Overlap. Actual start of this clone is at base position 1 of
CTB-38K21, actual end is at base position 9416 of RP3-327A19.
Location/Qualifiers

FEATURES
Source

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repeat_region
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Query Match 18.0%; Score 449.2; DB 8; Length 134210;
Best Local Similarity 59.5%; Pred No.6.9e-81;
Matches 896; Conservative 1; Mismatches 554; Indels 55; Gaps 6;

QY 555 TGAGCTATTTGGCCAAATCACACAGCTTGAAGTGTGACAGTTGGTTTCTTCT 614
DB 53793 TGTGGATTTCCTTATTATTATTATTATTATTATTATTATTATTATTATT 53734

QY 615 TGTGTTTGAAGACAGGGCTTGTCTGTGACACCGAGGATGAGCAGGTGACCAAT 674
DB 53733 TCTTTTGTGAGACAGGGCTTCTCTGTGACCCAGGCTGGAGTGAAGACAC-ATCAT 53675

QY 675 AGGTACATGACGCTCAACCTCTCTAGCTCAAGGATCTGTGACCTCAGCTCCCAAT 734
DB 53674 GGCTCACTGACGCTCAACCTCTCTGGCTCAAGCAATCTCTAAATCTCAGCTCCGAGT 53615

QY 735 AGCTGGACTACAGAGGTGACACACACGCTGGCTAATTTAAAAATTTTGTAGAG 794
DB 53614 AGCTGGCTTAAAGCTTGAAGTACACAGGCCGGCTAATTTTAAATGTTTGAGAGA 53555

QY 795 ACTGGGCTTACCTAGCTTGGCCAGGCTTGTCTTAACTCTGAGCTTCAAGCAATCTCT 854
DB 53554 CAAGGGTCTCAGTATGTACACAGGGTGTCTTAAATCTCTGGTTCAAGGATCTCTCT 53495
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Qy      855  ACCTGGCATCCCAAGTGTGGATTACAGGGGTGAGCCACCATGTCGGCTACTTATTT 914
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Qy      915  TCTTACATTCATCTTTTCCAAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 974
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Qy      975  TTTCTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 1030
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Qy      1031  -----GCTCAGTGCACACTCTGCTCCCGGTTCAAGYATTTCTCTGCTTAAGC 1080
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Qy      1321  AGTAGGCTCTCAATTAATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1380
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Qy      1381  TTTTAAAAACAATCTTGCACTTTGCAATTAATCAATCTTGCAATTTGCTTTTCTTCA 1440
Db      52991 TCACTCTCCGAGTACAGGATTAACAGCGCTGCGGCTACGCCAGCTAATTTTGTGA 52932
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Qy      1918  GAATTTGCTTAACCTGGAGGACAGAGTTGAGTACAGCCGAGATCCACACACTGCACTCC 1977
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Qy      1978  AGCTGGGCGACACAGGAGACTTATCTCAAAAAATTAATTAATTAATTAATTAATTAATTAATTAAT 2037
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Qy      2038  GAGAGA 2043
Db      52331  AAAAGA 52326

RESULT 15
AC005484/c 131943 bp DNA linear PRI 30-SEP-2000
DEFINITION Homo sapiens PAC clone RPS-84708 from 14q24.3, complete sequence.
ACCESSION AC005484
VERSION AC005484.2 GI:5091654
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 131943)
Sulston, J.R. and Waterston, R.
Toward a complete human genome sequence
Genome Res. 8 (11), 1097-1108 (1998)
9847074
2 (bases 1 to 131943)
Cloud, J., Wohlmann, P. and Holmes, A.
The sequence of Homo sapiens PAC clone RPS-84708
Unpublished
3 (bases 1 to 131943)
Waterston, R.H.
Direct Submission
Submitted (14-AUG-1998) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
4 (bases 1 to 131943)
Waterston, R.H.
Direct Submission
Submitted (17-JUN-1999) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
5 (bases 1 to 131943)
Waterston, R.
Direct Submission
Submitted (30-SEP-2000) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Jun 17, 1999 this sequence version replaced gi:3907511.

----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc
Contact: sapiens@wustl.edu
----- Summary Statistics
Center project name: H_DJ0847008

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NOTICE: This sequence may not represent the entire insert of this clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:
This clone from chromosome 14 was provided by Dr. Pieter de Jong, Roswell Park Cancer Institute, Human Genetics Department, Elm and Carlton Streets, Buffalo NY 14263-0001 USA.

SOURCE INFORMATION:
This clone was derived from human PAC library RPCI-5, prepared by Pieter de Jong and coworkers at the Roswell Park Cancer Institute (<http://pacpac.med.buffalo.edu>) using the method described by Ioannou et al., Nature Genetics 6:84-9 (1994). The library is from one male donor.

The clone may be obtained either from Genome Systems, Inc. (<http://www.genomesystems.com>) or Research Genetics, Inc. (<http://www.resgen.com>); or from Pieter de Jong.

VECTOR: pCYPAC2

NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the left is RP5-89265; the clone sequenced to the right is RP4-59267, 200 bp overlap. Actual start of this clone is at base position 1 of RP5-84708; actual end is at base position 131747 of RP5-84708.

Location/Qualifiers

1..131943

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Query Match 17.9%; Score 447.8; DB 8; Length 131943;
Best Local Similarity 61.3%; Pred. No. 1.3e-80;
Matches 913; Conservative 1; Mismatches 523; Indels 52; Gaps 10;

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 17, 2006, 10:20:55 ; Search time 9872 Seconds
(without alignments)
1185.170 Million cell updates/sec

Title: US-10-607-806-1-C7256_COPY_7000_9500
Perfect score: 2499
Sequence: 1 gtcgtgcaactgctgcacg.....ttcgagaccagcctgacaa 2501

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

EST.*
1: gb_est1.*
2: gb_est2.*
3: gb_est3.*
4: gb_est4.*
5: gb_est5.*
6: gb_est6.*
7: gb_est7.*
8: gb_est8.*
9: gb_est9.*
10: gb_est10.*
11: gb_est11.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	505.4	20.2	507	BU785040	BU785040 in43909.x
2	344.2	13.8	4087	BC024593	BC024593 Homo sapi
3	341	13.6	3990	AL713681	AL713681 Homo sapi
C 4	337.2	13.5	15970	AO839852	AO839852 260L13-C5
C 5	315.8	12.6	897	CD557847	CD557847 AGENCOURT
C 6	311	12.4	3095	CR858326	CR858326 Pongo pyg
C 7	307.2	12.3	5797	CR749233	CR749233 Homo sapi
C 8	301.2	12.1	1605	CR860521	CR860521 Pongo pyg
C 9	301.2	12.1	1863	CR598442	CR598442 full-length
10	300.6	12.0	946	BO958903	BO958903 AGENCOURT
C 11	298	11.9	918	BO706343	BO706343 AGENCOURT
C 12	293.6	11.7	736	CK780936	CK780936 HES3_2_B
C 13	290.6	11.6	3092	CR613629	CR613629 full-length
C 14	288.2	11.5	855	BQ681302	BQ681302 AGENCOURT
C 15	287.6	11.5	769	BQ710315	BQ710315 AGENCOURT
C 16	285.2	11.4	4088	BSM808459	BSM808459 Homo sapi
C 17	283	11.3	3165	CR859576	CR859576 Pongo pyg
C 18	281.6	11.3	800	AU120942	AU120942 full-length
19	280.4	11.2	3259	CR860168	CR860168 Pongo pyg
20	280.4	11.2	672	CA431692	CA431692 full-length
21	280	11.2	3474	AL10229	AL10229 Homo sapi
22	278.8	11.2	658	AO393450	AO393450 CITBI-E1-

C 23	277.6	11.1	877	9	AQ739838	AQ739838 HS_5505_A
24	277.2	11.1	1875	4	BC009270	BC009270 Homo sapi
C 25	276.6	11.1	3990	4	BSM803026	BSM803026 Homo sapi
C 26	276.4	11.1	4828	4	BSM802759	BSM802759 Homo sapi
C 27	276.2	11.1	881	5	BU521286	BU521286 AGENCOURT
C 28	274.8	11.0	3552	4	CR860263	CR860263 Pongo pyg
C 29	273.8	11.0	736	6	CA427039	CA427039 full-length
C 30	273.4	10.9	629	5	BS509360	BS509360 full-length
C 31	273.4	10.9	2230	4	CR859082	CR859082 Pongo pyg
C 32	272.4	10.9	652	6	CA427045	CA427045 full-length
C 33	272.4	10.9	666	6	CA431783	CA431783 full-length
C 34	272.4	10.9	815	8	CR785622	CR785622 AGENCOURT
C 35	272.2	10.9	922	5	BU501973	BU501973 AGENCOURT
C 36	272	10.9	617	3	BI861844	BI861844 603388872
C 37	271.8	10.9	644	7	CN480313	CN480313 full-length
C 38	271.6	10.9	1042	5	EX377759	EX377759 full-length
C 39	271.6	10.9	2097	4	CR614786	CR614786 full-length
C 40	271.4	10.9	603	1	AL707313	AL707313 full-length
C 41	271.2	10.9	5325	4	BSM80409	BSM80409 Homo sapi
C 42	271.2	10.9	5785	4	BSM802309	BSM802309 full-length
C 43	270.6	10.8	2330	4	CR615928	CR615928 full-length
C 44	270.4	10.8	618	9	BZ609884	BZ609884 WHACH767F
C 45	270	10.8	665	5	BU633001	BU633001 full-length

ALIGNMENTS

RESULT 1
LOCUS BU785040 507 bp mRNA linear EST 11-OCT-2002
DEFINITION in43909.x1 HR85 islet Homo sapiens cDNA clone IMAGE:6125008 3',
mRNA sequence.
ACCESSION BU785040
VERSION BU785040.1 GI:23830576
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Melton,D., Brown,D., Kenty,G., Permutt,A., Lee,C., Kaestner,K., Lemishka,I., Scaerza,M., Brestelli,J., Gradwohl,G., Clifton,S., Hillier,L., Marra,M., Pape,D., Wylie,T., Martin,J., Birstein,A., Schmitt,A., Theising,B., Ritzer,G., Komko,I., Bennett,D., Cardenas,M., Gibbons,M., McCann,R., Cole,R., Tsagarisvilli,R., Williams,T., Jackson,Y. and Bowers,Y.
Endocrine Pancreas Consortium
Unpublished (2000)
TITL Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue
JOURN Endocrine Pancreas Consortium
COMMENT Endocrine Pancreas Consortium
Harvard University, Howard Hughes Medical Institute
Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge, MA 02138
Tel: 617-495-1812
Fax: 617-495-8557
Email: dmelton@biochem.harvard.edu
Library was constructed by Dr. Hiroshi Inoue DNA sequencing by:
Washington University Genome Sequencing Center For information on
obtaining a clone please contact: Dr. Hiroshi Inoue
(hinoue@im.wustl.edu)
Seq primer: -40UP from Gibco
High quality sequence stop: 443.
Location/Qualifiers
1. 507
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FEATURES

source

/note="Organ: Pancreas; Vector: pBluescript SK(-); site_1: NotI; site_2: XhoI; cDNA made by oligo-dT priming. Size-selected on agarose gel. Average insert size ~1kb. 5' XhoI site was destroyed after directional cloning. Amplified once. Contact Information: Hiroshi Inoue, MD, Metabolism Div. (Alan Permut Lab), Washington University School of Medicine, Box 8127, 660 South Euclid Ave., St. Louis, MO 63110, E-mail: hinoue@ingate.wustl.edu, Tel: 314-362-1916, Fax: 314-747-2692."

ORIGIN

Query Match 20.2%; Score 505.4; DB 5; Length 507;
Best Local Similarity 99.8%; Pred. No. 2.3e-35;
Matches 506; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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1566 TAGAAGGCCAAATTTACAAATCTGATGTAAGCTAAGACCTCTCCCGCAGAAATACAC 1625
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Db 447 TAGAAGGCCAAATTTACAAATCTGATGTAAGCTAAGACCTCTCCCGCAGAAATACAC 388
1626 ACACACACACACACTCACAACAGTTTTTTTAAATGTTTSCAACTAAGACAGAAACT 1685
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Db 387 ACACACACACACACTCACAACAGTTTTTTTAAATGTTTSCAACTAAGACAGAAACT 328
1686 GCATTAGAGAGATGTTTGTCTATATTAATAAATAATCTAGTGGGACAGTACCTCAA 1745
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Db 327 GCATTAGAGAGATGTTTGTCTATATTAATAAATAATCTAGTGGGACAGTACCTCAA 268
1746 GCCTGTAAACACAGACTCTTGAAGTCCAGAGTGGGTGATCACTTGAGTGAAGTTC 1805
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Db 267 GCCTGTAAACACAGACTCTTGAAGTCCAGTGGGTGATCACTTGAGTGAAGTTC 208
1806 GAGACACAGCTGTGCTAATATGTTGAACCTCTATCTTAATAAATAATTAATAGTGTG 1865
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Db 207 GAGACACAGCTGTGCTAATATGTTGAACCTCTATCTTAATAAATAATTAATAGTGTG 148
1866 GGTGTAGATGATGATGCTGCTGATGCTCCAGCTACCTCGGAGGCTGAGGAGAAAGATTGCT 1925
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Db 147 GGTGTAGATGATGATGCTGCTGATGCTCCAGCTACCTCGGAGGCTGAGGAGAAATGCT 88
1926 TGAACCTGAGAGGCGAGAGTGTGACGTGAGCGAGATCCCAACACTGCACTCCAGCTGGG 1985
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Db 87 TGAACCTGAGAGGCGAGAGTGTGACGTGAGCGAGATCCCAACACTGCACTCCAGCTGGG 28
1986 CGACACAGCGAGACTCTATCTCAAAA 2012
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Db 27 CGACACAGCGAGACTCTATCTCAAAA 1

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RESULT 2
BC024593 4087 bp mRNA linear HTC 29-JUN-2004
LOCUS Homo sapiens cDNA clone IMAGE:3914314, with apparent retained intron.
ACCESSION BC024593
VERSION BC024593.1 GI:22137609
KEYWORDS HTC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 4087)
Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G., Klausner,R.D., Collins,F.S., Wagner,L., Shennan,G.D., Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K., Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F., Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L., Stepleton,M., Soares,M.B., Bonaldi,M.F., Casavant,T.L., Scheetz,T.E., Brownstein,M.J., Uedlin,T.B., Toshiyuki,S.,

TITLE

JOURNAL PUBMED
12477932

REFERENCE

AUTHORS

TITLE

JOURNAL

REMARK

Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J., Abramson,R.D., Mullaly,S.J., Bosak,S.A., McEwan,P.J., McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S., Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W., Viallon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A., Fahy,J., Helton,E., Kettman,M., Madan,A., Rodriguez,S., Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y., Bouffard,G., Blakesley,R.W., Touchman,J.W., Green,E.D., Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M., Butterfield,Y.S., Krzywinski,M.I., Skalske,U., Smailus,D.E., Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www.bhg.stanford.edu>
Contact: (Dickson, Mark) mcd@paxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.

FEATURES

source

1. 4087
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Best Local Similarity 58.3%; Pred. No. 6.6e-22;
Matches 859; Conservative 1; Mismatches 544; Indels 69; Gaps 12;

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OY	894	CACCATGTGGGGCTACTAATTTCTTTACATTCATCTTTCGAATAAGAATGATCAC	953
Dd	2318	CACCACATCTGGCCGTGTGAATTAATTTTTTTTT-----	2356
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Dd	2357	-----TTTTTTTTTGAATGAGCTGCTGTGCTCAGCGTGAAT	2402
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Dd	2403	GCAAGTGATGATCTCGGCTCGCTGCACACCCCGCTCCCGGGTTCAAGTATTTTCTG	2462
OY	1074	CCTAAGCTCCTGAGTAGCTGGAATTACAGCGTGCACACACATGCTTGGCTAATTTTT	1133
Dd	2463	TGTACGCTCCCGAGTACCTGGGGTTACAGGTGTCACACAAGCCCTGGCTAA -TTTT	2521
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OY	1194	TCAAGTAGTGTGCTGCTCCTCAGTCTCCCAAAGTGTGGAATTAAGCGTAGTCACTGT	1253
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Dd	3117	AATTTAGCC---GGGTGAGTGACTCAGCCTGCACTTAACTTTTGGGAAGCCGA-	3172
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OY	1837	ATCTCTACT-AAAAATCAAAAATTAAGCTGGGTGTAGTATGACATGCTGTATATGCCAGC	1895
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DB 3293 TACTTGGGAGGCTGTGATTTGGAGGATGCTGCGAAGCTGGAGGTCAAGGCTGCCGTGGT 3352
OY 1956 CGAGATCCCAACA CTGCACTTCAGCTCGGGCGCACACGAGACTATCTCAAAAAAT 2015
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		HTC				
		Homo sapiens (human)				

REFERENCE	AUTHORS
1 (bases 1 to 3990)	Ansoorge, W., Krieger, S., Regiert, T., Rittmüller, C., Schwager, B.,

Mewes, H. W., Weil, B., Amid, C., Osanger, A., Födo, G., Han, M. and Wiemann, S.

CONSRIM
TITLE
JOURNAL
Direct Submission
Submitted (22-SEP-2004) MIPS, Ingolstaedter Landstr.1, D-85764
Neuburg am Main

COMMENT
Neuenberg, GERMANI
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
sequenced by EMBL (European Molecular Biology Laboratories,
Heidelberg/Germany) within the cDNA sequencing consortium of the
German Genome Project.

This clone (DKFZP76100217) is available at the RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH in Berlin, Germany. Please contact RZPD for ordering:
<http://www.rzpd.de/cgi-bin/products/cl.cgi?cloneID=DKFZP76100217>
Further information about the clone and the sequencing project is available at <http://mips.gsf.de/projects/cdna/>.
Location/Qualifiers

Source

LOCATION/QUALITY
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CDS

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ORIGIN

Query Match	13.6%	Score 341	DB 4	Length 3900
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QY 784	TTTTGTGAGACGTGGGTCTTACTACGTTGGCCAGGCTGTGTTAACTCTCGCTTCA			843
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DEFINITION	260L13-C56	CITB	Homo sapiens genomic clone 260L13, genomic survey sequence.
ACCESSION	A0839852		
VERSION	A0839852.1	GI:6652484	
KEYWORDS	GSS.		
SOURCE	Homo sapiens (human)		
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.		
REFERENCE	1 (bases 1 to 15970)		
AUTHORS	Carpten,J.D., Makalowska,I., Robbins,C.M., Scott,N., Sood,R., Comoros,T.D., Bonner,T.I., Smith,J.R., Faruque,M.U., Stephan,D.A., Plinkett,H., Morgenbesser,S.D., Su,K., Graham,C., Gregory,S.G., Williams,H., McDonald,L., Baxevanis,A.D., Klingler,K.W. and Landes,G.M.		
TITLE	A 6-Mb high-resolution physical and transcripition map encompassing the hereditary prostate cancer 1 (HPC1) region		
JOURNAL	Genomics 64 (1), 1-14 (2000)		
PUBMED	10708513		
COMMENT	Contact: Carpten JD Cancer Genetics Branch National Human Genome Research Institute/National Institutes of Health Bldg. 36, Room 3D04, 36 Convent Drive, Bethesda, MD Tel: 301 435 5626 Fax: 301 435 5465 Email: jdc@nhgri.nih.gov Class: shotgun.		
FEATURES	Location/Qualifiers		
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ORIGIN			

Query Match 13.5%; Score 337.2; DB 9; Length 15970;
 Best Local Similarity 57.8%; Pred. No. 1,1e-21;
 Matches 905; Conservative 1; Mismatches 529; Indels 131; Gaps 12;

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QY 6072 TTGCTCTTCAATTAATCTGTGCTCTTTCAAGAACTGTTAGTATATTTTGGGT 6013
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1354 AGCTTATATTAATCTTTCTTTTCTTTTAAACAATCTTGACAACTTTGAGATA 1413
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 6012 CTCTTATATTAATCTTTTAAATCTAATCAAGTATCTCTTTTGGCAATTA 5953
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1414 AATACATCTTGCATCTGCTTTTCACTTATCACTTGTATGACTTTTTCATATGCTC 1473
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 5952 GTTCTACTTATATCTTTTCTTATTTTATTTTCCAACTCTTATTTAAATTTCTGTCA 5893
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1474 TCAAACTTATTT-----GTTACTGTTTTTCAATGTTACTATTTTACTC----- 1518
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 5892 TATTTGTCATTTTCAAGATTAATTTTCAATTTTTCACGTCTCTTTTCTTTTCTTTA 5833
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QY 5832 GGGTATGCAAGTATATGTTCTTTTAAATAGTCTCAATATGTTTTCAGGATACAAA 5773
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DB 5772 ATGCTTACCTTTCTAAGATGATTAATTAATTAATTTATTTATTTATTTAGGGAGATA 5713
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QY 5712 GGGGTTTTTGTGTTTGTATTTGTGCTGTGTTTGTGTTGTGTTGTCTCTCGTTTTT 5653
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RESULT 5
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 LOCUS AGENCOURT 14423258 NIH MGC 180 Homo sapiens cDNA clone
 DEFINITION IMAGE:30350116 5', mRNA sequence.
 ACCESSION CD57847
 VERSION CD57847.1 GI:31583915
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Bkayota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homidae; Homo.
 REFERENCE 1 (bases 1 to 897)
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 CONTACT Daniela S. Gerhard, Ph.D.
 Office of Cancer Genomics
 National Cancer Institute / NIH
 Bldg. 31 Rm10A07 Bethesda, MD 20892
 Email: cgabs-remail.nih.gov
 Tissue Procurement: Dr. Michael Brownstein
 cDNA Library Preparation: Invitrogen Corp
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: ND464 row: k column: 21
 High quality sequence stop: 636.
 Location/Qualifiers
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 FEATURES
 source


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Db      1867 AGGGTAAGCCACCATGCGCCGCAATGTAGGCGCTTTTGTGACATTAAGATATTCATTA 1926
Qy      926 -----CATCTTCCAAAT-----A 938
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Qy      939 GAATGTAGATCCACAGACAGGAGTACTGCGCTATTTCTCTCTCTTTTGTAGACA 998
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Qy      999 GAGT-----CTCACTTCATCACTCAACCTCCGTTCACTCACTCAAC 1043
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Qy      1164 GTTGCCAGGCTGTCTCAACTCTGACCTCAAGTATGCTGCTGCTCACTCCAA 1223
Db      2226 ATTTGCTAGGCTGTCTCAACTCTGACCTCAAGCATCGGCTGCTCACTCCAA 2285
Qy      1224 AGTGTGGAATTAATAGGCTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1282
Db      2286 GTTGTGTGGGATTAATGCTGTGAGGCAACACCGGCTGCTTAATCAATATCTTGA 2345
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Qy      1523 AATAATATGCTTAATTTGCTTAATACATCTCTGCTCACTTTAGAGGCCAAAT 1582
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Qy      1583 AAATCTGATGAAGCTATGAACCTCTCCCAAGAAATACACACACACACTCA 1642
Db      2635 TA-----ACCCC 2641
Qy      1643 CACACAGTTTTTTTTTAATGTTTGAATTAAGCAAGAAACCTGATTAAGATGTT 1702
Db      2642 AAGGCAATGTTTCAATTTTCTCAGGTAAAGCTCCATAGAGATG----- 2691
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Qy      1763 TTTTGAAGTCAAGGTGGGTGATCACTTGAAGTGAAGTTGAGACCAAGCTGTTCA 1822
Db      2746 TTTTGGAGGCAAGGAGGAGGATGTGCTAGGTGAGAGTGTGAGACCAAGCTG 2805
Qy      1823 TATGTGAACCCATCTACTATAAATAAATAAATTAAGCTGGGTGTATGATGATGC 1882
Db      2806 CATGTGGAACCTATCTC- ACTTAATAATTAATAAATTAATTTGAGGTGTGAGAC 2864
Qy      1883 CTGTAGTCCAGTACTCTGGAGGCTGAGGCAAGATTTGCTGAACCTGGAGGAGCA 1942

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Db      2865 CTGTATCCAGCTCTTAGGCACTGAGGACGAGAAATCACTTAACCTGGAGGAGA 2924
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Db      2925 GGTTCAGTATGCGGAGATATCCCACTGCACTTCCAGCTTGGGCGACAAAGTGA 2984
Qy      2003 ATCTCAAAAAAATAAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2062
Db      2985 GTCTCAAAAAAATAAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 3044
Qy      2063 C 2063
Db      3045 C 3045

RESULT 7
CR749233/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo
1 (bases 1 to 5797)
Poustka, A., Albert, R., Moosmayer, P., Schnupp, I., Wellenreuther, R.,
Mewes, H. W., Weill, B., Amid, C., Oeinger, A., Fobio, G., Han, M. and
Wiemann, S.
The German cDNA Consortium
Direct Submission
Submitted (17-AUG-2004) MIPS, Ingolstaedter Landstr. 1, D-85764
Neuberberg, GERMANY
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ), Email: s.wiemann@dkfz-heidelberg.de;
Heidelberg/Germany) within the cDNA sequencing consortium of the
German Genome Project. This clone (DKFZp686C0331) is available at
the RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH in
Berlin, Germany. Please contact RZPD for ordering:
http://www.rzpd.de/cgi-bin/products/ci.cgi?cloneid=DKFZp686C0331
Further information about the clone and the sequencing project is
available at http://mips.gsf.de/projects/cdna/.

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/note="hypothetical protein"
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/db_xref="taxon:9606"
/clone="DKFZ468P2419"
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DH10B; sites SfiIA + SfiIB"
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Best Local Similarity 67.7%; Pred. No. 6.6e-18;
Matches 474; Conservative 1; Mismatches 204; Indels 21; Gaps 3;
QY 598 TTTGGGTTTTTTTTTTGTTGTTTGAAGACAGAGGCTTCTGTCACCCAGGATGAG 657
DB 1602 TTTTGTGTTTGTGTTGTTGTTTGAAGACAGATCTTGCTGCTCCCGGGCTGAG 1543
QY 658 CACAGTGTGACACATAGGCTCACTGACGCTCAACTCTGAGCTCAAGGATCTGCTG 717
DB 1542 TGTAGTGTGCAATCTGAGCTCACTGCAACATCCATCTCCGGATTCACATTATCTCT 1483
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DB 1482 GCTTCAGCTCTCAGAGTGGGATTAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1423
QY 778 AAAATTTTTTTTGAAGAGAGTGGCTTACTACTGCTGCTGCTGCTGCTGCTGCTGCT 837
DB 1422 GTA--CTTTAGTAGAGACGGGGTTTCAACATGTTGCGAGGCTGCTCAAACTCTG 1365
QY 838 CTTCAGCAATCTCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 897
DB 1364 CTTCAAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1305
QY 898 ATGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 957
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DB 1249 TGAATGATGAGGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTG 1190
QY 1018 CAACCTCGTTCA-----GCTGCTGCAACTGCTGCTGCTGCTGCTGCTGCTGCT 1063
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QY 1124 CTATTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTT 1183
DB 1069 GATATTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT 1010
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DB 1009 ATTCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 950
QY 1244 GATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1283
DB 949 GAGCACTGACCGCGCCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 910

RESULT 9
CR599842 1863 bp mRNA linear HTC 21-JUL-2004
LOCUS full-length cDNA clone CS0DA002Y006 of Neuroblastoma of Homo
DEFINITION sapiens (human).
ACCESSION CR599842
VERSION CR599842.1 GI:50480649

KEYWORDS HTC; CNSLT CDNA.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE 1 (bases 1 to 1863)
AUTHORS Li, W.B., Gruber, C., Jessup, J., and Polayes, D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished
REMARK Contact : Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/Invitrogen Corporation 1600
Faraday Avenue
Genoscope.
2 (bases 1 to 1863)
REFERENCE Direct Submission
AUTHORS Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : seqret@genoscope.cns.fr
- Web : www.genoscope.cns.fr)
COMMENT 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
FEATURES
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Location/Qualifiers
1. 1863
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Query Match 12.1%; Score 301.2; DB 4; Length 1863;
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Matches 811; Conservative 1; Mismatches 509; Indels 105; Gaps 10;
QY 624 GAGACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 683
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QY 684 CAGCTCAACTGCTGAGCTCAAGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 743
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QY 804 TACTAGCTGGCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 863
DB 676 CACCATGTTGGCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 735
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DB 736 TCCCAAGTCTGAGATTACAGGTTTCAAGATTTTGAACAATTCGCTGAGATTTGAAC 795
QY 924 TCCATCTTTCATAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 983
DB 796 AGCTGGCGCTGATCCCGCAGTAGAGAGACCTGAGAGGAGAGAGAGAGAGAGAGAG 855
QY 984 TTTCTTTTGAAGACAGATCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1042
DB 856 GAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 915
QY 1043 CTCGCTCCCGGGTTCAGGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1102
DB 916 ATCTGCTCCAGATTCAGGCAATTTTCCACTGACGCTCCGCTGAGTGTGAAGTACA 975
QY 1103 AGGTCACACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1158
DB 976 GGTCTCCCGCAGCAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1035

Db 494 TCAGCCTCCCAAGTAGTGGGATTACAGAGCTGTGCCACCACTACCTGGGTAA-TTTTTGC 552
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 Db 553 ATTTTTCAGTGAAGGAGGATTTTCACATGTTGGCCAGGCTGTCTTCAAACTCTCGACTTC 612
 Qy 1196 AAGTATCTGCTGCTCCTCAGTCTCCCAAGAGTGTGAATTATAGCGCGAGTCACTGTGC 1255
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RESULT 11
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 LOCUS AGENCOURT 8484983 NIH_MGC_113 Homo sapiens cDNA clone IMAGE:6301091
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 VERSION BQ706343.1 GI:21845242
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 918)
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Straubeberg, Ph.D.
 Email: c9abps-remail.nih.gov
 Tissue Procurement: Dr. Mark Watson
 cDNA Library Preparation: Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.llnl.gov
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 High quality sequence stop: 632.
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 /note="Organ: spleen; Vector: pOTB7; Site: 1: XhoI, site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA Synthesis Kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 11.9%; Score 298; DB 5; Length 918;
 Best Local Similarity 68.6%; Pred. No. 1.8e-17;
 Matches 456; Conservative 1; Mismatches 197; Indels 11; Gaps 3;

Qy 598 TTTGGGTTTTTTTTTTGTTGTTTGAAGACAGGGTCTGCTGTGACCCAGGATGAG 657
 Db 666 TTTTGGATTATGATTATATTCTTTGAAGCAAGGCTTCGCTGTCAACAGGCGGAG 607
 Qy 658 CACAGTGTGCAACCATAGTCTACTGACGCTCAACTCTGAGCTCAAGGATCTGCTG 717
 Db 606 TGCAGTGTGTCATCATGCTCACTCCAGCTTATCTCTGGGCGCAAGTGAATCTTCA 547

Qy 718 ACCTCAGCCTCCCAAGTAGTGGGACTAGAGGCTGACCAACGCTGGGCTA----- 771
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 Qy 772 -ATTAATAAATTTTTTTTGAAGACTGGGCTCTTACTACGTGTGGCCAGGCTTGTCTTAA 830
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 Db 426 TTCCTGACTCAGGCGATCTCTGCTTACGCTCCCAAGTGTGATTAACAGGGGTG 367
 Qy 891 AGCC---ACCATGGGGGCTACTTATTTCTTTTCAATTCATCTTTCCAAATGAATGAAG 947
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 Db 306 TAAATATTTTGTGTTGTTGTTTCTTTTGTGAGACAGAGTCTTGTCTGTCAACCCAGGC 247
 Qy 1008 TTCAATCACTCAACCTCCGTTCACTGCTCACTGCAACTCTGCTCCGGTTCAAGYATT 1067
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 Qy 1068 CTCCTGCTTAAGGCTCCTGAGTAGCTGGAATTCAAGCGGCAACCAATGCTTGGCTTA 1127
 Db 186 CTGTGCTCAGGCTCTGTGATGCTGGAGTTACAGGCGCTGCAAGATGCCCCACTTA 127
 Qy 1128 TTTTGTATTTTGAAGACAGATGGGGTTTACATGTTGCCAGGCTGTCTCAAACTC 1187
 Db 126 TTTTGTATTTTGAAGACAGATGTTTCAACATGTTGGCCAGGCTGTCTCAAACTC 67
 Qy 1188 CTGACCTCAAGTATCTGCTGCTCACTGCTCCCA-AGTGTGGAATTATGAGCGTGA 1246
 Db 66 CTGACCTCAAGTATCTGCTGCTGCTCCCAATTTGCGGATTAACAGGTGTGAG 7

Qy 1247 TCACT 1251
 Db 6 CCACT 2

RESULT 12
 CX780936 736 bp mRNA linear EST 02-MAR-2005
 LOCUS HESG3_2.B04.b1.A036 NIH_MGC_260 Homo sapiens cDNA clone
 DEFINITION IMAGE:30928759 3', mRNA sequence.
 ACCESSION CX780936
 VERSION CX780936
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 736)
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Other ESTs: HESG3_2.B04.g1.A036
 Contact: Daniela S. Gerhard, Ph.D.
 Office of Cancer Genomics
 National Cancer Institute / NIH
 Bldg. 31 Rm10A07 Bethesda, MD 20892
 Email: c9abps-remail.nih.gov
 Tissue Procurement: BresaGen, Inc.
 cDNA Library Preparation: Express Genomics, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Laboratory for Genomics and Bioinformatics, University of Georgia
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.llnl.gov

Plate: NDAM1172 row: C column: 08
 Seq primer: M13-21 (TGTAACGACGCGCCAGT)
 High quality sequence stop: 711
 POLYA=yes.

FEATURES

SOURCE

Location/Qualifiers

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1..736
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:30928759"
/sex="male"
/class_type="human embryonic stem cells"
/cell_type="human embryonic stem cells"
/lab_host="MD10B-T1 phage-resistant E. coli"
/clone_lib="NIH MGC 260"
/notes="Vector: pExpress-1; Site 1: NotI; Site 2: EcoRV;
RNA obtained from human embryonic stem cells isolated from
the inner cell mass of blastocyst stage embryos. Cell line
id and NIH Registry designation is BG01. Positive for
SSEA3, SSEA4, Tra 1-60, Tra 1-81, CD9, Alk Phos, Oct4 and
Nanog expression; negative for SSEA1 expression. Passage
number 21. cDNA primed using oligo-dT primer:
5'-TGACTAGTCTAGATCGGAGCGGCCCT(T)25-3 and cloned into
the EcoRV/NotI sites of pExpress-1. This primary library
is non-normalized (normalized primary library is
NIH MGC 261). It was constructed by Express Genomics
(Fredrick, MD). Sequence ends have been trimmed to
exclude vector and regions below Phred quality 16. Note:
this is a Mammalian Gene Collection library."

```

ORIGIN

11.7%; Score 293.6; DB 8; Length 736;

Query Match Best Local Similarity 66.9%; Pred. No. 5e-17;

Matches 464; Conservative 1; Mismatches 220; Indels 9; Gaps 3;

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QY 599 TTGGGTTTTTTTGTGTGTTTGAAGACAGGGTCTTGCTGTGACCCAGGAGTACG 658
Db 1 TTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 60
QY 659 ACAGTGTGTGAACCTATAGTCACTGACGACCTTCAACCTCTGACGCAAGGATCTGCTGA 718
Db 61 GCAGTGGGGGATCTCGGCTCACTGCAACCTCTGCTCTGCTGTTCAAGCACTTCTTCTG 120
QY 719 CCTGAGCTCCCAAGTATGAGGACTAGAGGCTGACACCAACGCTGCTAATTAATAA 778
Db 121 CTTACGCCCCCTGATGACTGGATTAACAGGACCAACCAACGCTGATCTT--TT 178
QY 779 AAATTTTTTTTGAAGACTGGGTCTTACTAGCTTGGCAGAGCTTGTCTTAAACTCTGGC 838
Db 179 TTGTATTTTGAATAAATGGGGTTTGCTATATTGGCAGGCTGGTCTCAAACTCTGAC 238
QY 839 TTCAAGCAATCTCTTACTCTTGGCATCCCAAGTCTGGGATTAAGAGGGTGAAGCACCA 898
Db 239 CTCAGGTATCAACCTGCTAAGCCTGCAAGTCTGGGATTAAGGACATGAACACCA 298
QY 899 TGTGGGCTACTTATTTCTTATCAATTCATCTTTCATTAAGATGAATGATCAAGAAC 958
Db 299 TGCCAGGCTCTTATTTCTTTTAAATATATATCAAGTATTTATTTATTTATTTA 358
QY 959 AGGATTAATGCTATTTTCTTCTCTTTTGTGAACAAGTCTCACTTCATCACTC 1018
Db 359 TTTATTTATTTTGAATGAGATTGTCCTTGTGCTTGTGCTGAGTGAATGGGAC 418
QY 1019 AACCTCCGTTGAGCTCACTGCAACTCTGCTCCGGGTTCAAGTATTTCTTCCCTTAA 1078
Db 419 GATC-----TCAGCTCACTGCAACCTCACTCCGGGTTCAAGTATTTCTTCCCTCA 473
QY 1079 GCTCTCTGAGTATGAGTATTAACAAGCGTGAACCACTGTTGGCTAATTTTGTATTT 1138
Db 474 GCTCTCTGAGTATGAGTATTAACAAGCGTGAACCACTGTTGGCTAATTTTGTATTT 531
QY 1139 TTACAGAGATGGGGTTTTTACATGTGTCAGGCTGGTCTCAAACTCTGACCTCAAG 1198

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Db 532 TTTAGTAGAACAAGATTTCTTCATGTGTGTCAGGCTGGTCTTGAACCTCTGACCTCAGG 591
QY 1199 TGAATTCCTGCTGCTCAGTCTCCCAAGTGTGGAATTAATATAGAGTACATGTGCTG 1258
Db 592 TGAATTCCTGCTCCTCGGCTCCCAAGTGTGGAATTAATATAGAGTACATGTGCTG 651

```

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QY 1259 GCCGATTACTGTCTATTTCTTATTTATTCATATC 1292
Db 652 GCCATTATCAAGTATTTATTTACTTCTTCTC 685

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RESULT 13

LOCUS

CR613629 3092 bp mRNA linear HTC 21-JUL-2004
 full-length cDNA clone CS0D1039YN19 of Placenta Cot 25-normalized
 of Homo sapiens (human).

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNML

REMARK

REFERENCE

AUTHORS

TITLE

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QY	834	CTGGCTTCAACCAATTCCTCCATCCCTGAGATCCCAAGTGTGGGATTACAGGGGTGAGC	893
Db	1986	CTGACCTC--GTGATCCGCTGTGCTCAGCCTCCAAAGTGTGGGATTACAGGTGTGAGC	2043
QY	894	CACCAATGTGGGCTACTATATTTCTTTACATTCATCTTTCCAATGAAATGTAAGATCCAC	953
Db	2044	CACCACGCGTGTGGCCCCCAGTCCAAATAATTTAAAGATGTTCCTTAGTGTCTTGAAATGTT	2103
QY	954	AGAACAGGAGATTACGCGCTATTTCTTCCTTTCTTTTGTAGACAGAGTCTACCTCATC	1013
Db	2104	TGCACA-----AAATTCCTTTTGTAGATGAGAGTCTACTGTGTACCCAGCTGGAGT	2158
QY	1014	ACCTCAACCTCCGTTCAAGCTCACTGCAACCTCTGTGCTCCCGGGTTCAGAGATTTCTCCTG	1073
Db	2159	GCAGTGGGTATCTTGGCTCAGTGCACACTCTGTGCTCTGGGGTTCAAGCAATTCCTCCA	2218
QY	1074	CCTTAAGCTCTCTGAGTACTGGAAATTAACAAGCTGACACACATGCTTGCGCTAATTTTTT	1133
Db	2219	CCTCAAGCTCTCCAAAGTACTGGGATTAACAAGTGTGCACACATACCTGGGGTAA--TTTTT	2277
QY	1134	GTATTTTATGACAGATGGGGTTTTTATCCATGTTGCCACAGCTGTGTCTCAAACTCCTGAC	1193
Db	2278	GCAATTTTATGAGAGAGAGAGATTTTACCATGTGTGCCAGATTTGGCTTGAACCTCTGACC	2337
QY	1194	TCAAGTATCTGCTGCTCTCAGTCTCCCAAGTGTGAGATTTATAGCGTGAATCACTGT	1253
Db	2338	TCAGTGTATCTCTGCTCTCGGCTCTCCAAAGTGTGTGGATTTACAGGATAGCACACGT	2397
QY	1254	GCCTGGCCG 1262	
Db	2398	GCTCAGCCG 2406	

FEATURES	SOURCE
<p>RESULT 14 BO681302/c</p> <p>LOCUS</p> <p>DEFINITION BO681302 AGENCOURT 8034339 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6213772</p> <p>ACCESSION BO681302</p> <p>VERSION BO681302.1</p> <p>KEYWORDS GI:21793981</p> <p>EST.</p> <p>SOURCE Homo sapiens (human)</p> <p>ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.</p> <p>REFERENCE 1 (bases 1 to 855) NIH-MGC http://mgc.nci.nih.gov/. National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)</p> <p>COMMENT Contact: Robert Struhsberg, Ph.D. Email: cgabbs-remail.nih.gov Tissue Procurement: DCTD/DTF cDNA Library Preparation: Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLML) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLML at: http://image.lnl.gov Plate: LNCM2380 row: a column: 05 High quality sequence stop: 649.</p>	<p>855 bp mRNA linear EST 15-JUL-2002</p>
<p>Location/Qualifiers 1..855</p>	

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FEATURES
source
location/Qualifiers
1..855
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/cisue="IMAGE:6213772"
/cisue_type="melanotic melanoma, cell line"
/lab_host="DHI10B (phage-resistant)"
/clone_id="NIH MGC 112"
/note="Organ: skin; Vector: pOTB7; site 1: XhoI; site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:

```

GGCAGGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

Query Match	11.5%	Score 288.2	DB 5	Length 855
Best Local Similarity	69.2%	Pred. No. 1.3e-16		
Matches 471	Conservative 1	Mismatches 161	Indels 48	Gaps 4
QY	606	TTTTTTTGTGTTTAAAGACAAGGGCTTGCTGCTCTGTCACTCCAGGCAATGACAQAGTGG	665	
DB	855	TTTTTTTTTTTTTTTTTATAGACAGGGCTTGATCTGTACCCCAACATGGAAGTGAAGTGG	796	
QY	666	TGCAACCATAGGTACATGACGCTCAACTCTGTAGGCTCAAGGGATGCTGATGCACTGCACG	725	
DB	795	TGAATCATACTCACTGTAACTCAAACTCTTGCGCTCAAGCAATACTTCCACTTCACG	736	
QY	726	CTCCCAAGTAGCTGGGACCTACGAGCGTGCAACACCAACGCTGGCTAAATTAATAAATTTT	785	
DB	735	TTCCCAATATACTGGGACTACAAAGTGCATGCAACATACCAACGATAAAT-GTTTAAAGTTT	677	
QY	786	TTTGTAGAGACTGGGCTCTTACTAGTGGGCAAGGCTGTCTTTAACTCTGGCTTCAAGC	845	
DB	676	TTTGTAGAGATGGGGCTTGGCAAGTGTTCNAGGGCTGCTTTAACTCTGGCTTCAAGT	617	
QY	846	AATCCTCTACTCTGGCAATCCCAAAAGTCTGGGATTAAGGGGTGAGCAACATGGGCG	905	
DB	616	GATCCTCCCACTCAAGCTCCCAAAAGTCTGGGATGACAGGCTGTAACAACATGCTGG	557	
QY	906	CTACTTAATTTCTTAACTATTCATCTTTTCCAATAGATGTAAATGCCAAGAAAGGGAAT	965	
DB	556	CTTCTCTCTCTCTCTCTCTTTTTTTTTTCTGAAACAGAT-----	518	
QY	966	ACTGCTAATTTCTTCTCTTTTAAAGACAAGTCTCACTTCATCACTCAACTCC	1022	
DB	517	-----TTTGTCTGTGTGCCAGGCTGCAAGTGAATGGCTCGA-----	480	
QY	1026	GTTAGCTCACTGCAACTCTGCTCTCCGGGTTCAAGATTTCTCTGCTTAAGCTCTCT	1081	
DB	479	TTTATGCTCACTGCAACTCTTCACTCTCCGGGTTCAAGATTTCTCTGCTCAAGCTCTCC	420	
QY	1086	GAGTAGCTGAATTAACAAGCGTGCAACCAACATGCTGGCTAA-----TTTTTGTATTTTTT	1144	
DB	419	AAGTAGCTGGATTTACAGGCGCTGCAACCAACGCTGCTGACTTTTTTTTTTGTATTTTTT	360	
QY	1142	AGCAGAGATGGGGTTTATACATGTGTGCCAAGGCTGATCTCAAACTCTGAACCTCAAGTGA	1201	
DB	359	AGTAGAGATGGGGTTTACCATGTGTGGCAAGGCTGAACCTGAACCTGATCTCAAGTGA	300	
QY	1202	TCTGCTGCTCTCACTCTCCCAAAGTGTGGAATTTATAGGCGTGAATCACTGTGCTGGCC	1261	
DB	299	TCCACCAACCTTGGCTCTCCCAAAGTGTGGAATTTACAGTGTGAGCACTGTGCCGGCC	240	
QY	1262	GATTACTGTCTAATTTCTTTTA	1282	
DB	239	AGCTTCTTGGCTTCTTACTGA	219	

RESULT	15
BQ710315/c	
LOCUS	BQ710315
DEFINITION	BQ710315 769 bp mRNA linear EST 16-JUL-2007
AGENCOURT	G351732 NIH_MGC_113 Homo sapiens cDNA IMAGE:628221
ACCESSION	BQ710315
VERSION	BQ710315.1 GI:21849214
KEYWORDS	EST.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
TAXID	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Mammalia; Euarchontoglires; Primates; Catarrhini;	
Hominiidae; Homo.	

